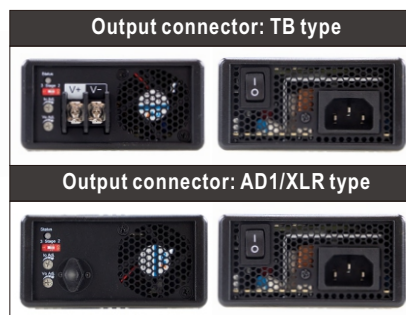




## Features

- 90~264Vac universal AC input, built-in PFC
- Charger for compatible with lead-acid and li-ion batteries
- Wide adjustable output range by VR:
  - ▶ Charging voltage adjustable(10.5~15.2V, 21~30.4V, 42~60.8V)
  - ▶ Charging current adjustable(50~100% rated current)
- 2 or 3 stage selectable by DIP S.W
- No load power consumption< 0.15W(AC S.W off)
- Fan ON-OFF control (Depends on internal temperature)
- -30℃~+70℃ wide operating temperature
- Protections: Short circuit / Over voltage /Over temperature / Battery reverse polarity protection
- Comply with UL/EN62368-1 and EN60335-1/2-29 dual certification
- Front panel LED indicator for charging status
- 3 years warranty

## Applications

- Radio system backup solution
- Electric scooter charger
- Camping car 、 Buses 、 Heavy duty truck 、 Specialty vehicles
- Surveillance system
- Portable power tools

## GTIN CODE

MW Search : <https://www.meanwell.com/serviceGTIN.aspx>

## Description

NPB-360 series is a 360W charger for compatible with lead-acid (Flooded, Gel, AGM) and li-ion(Lithium iron, lithium manganese) batteries. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and two or three-stage charging control. The entire series supplies different models with output voltages ranging between 10.5VDC and 60.8VDC that can satisfy the demands for various types of batteries devices.

## Model Encoding

NPB - 360 - 24 XLR

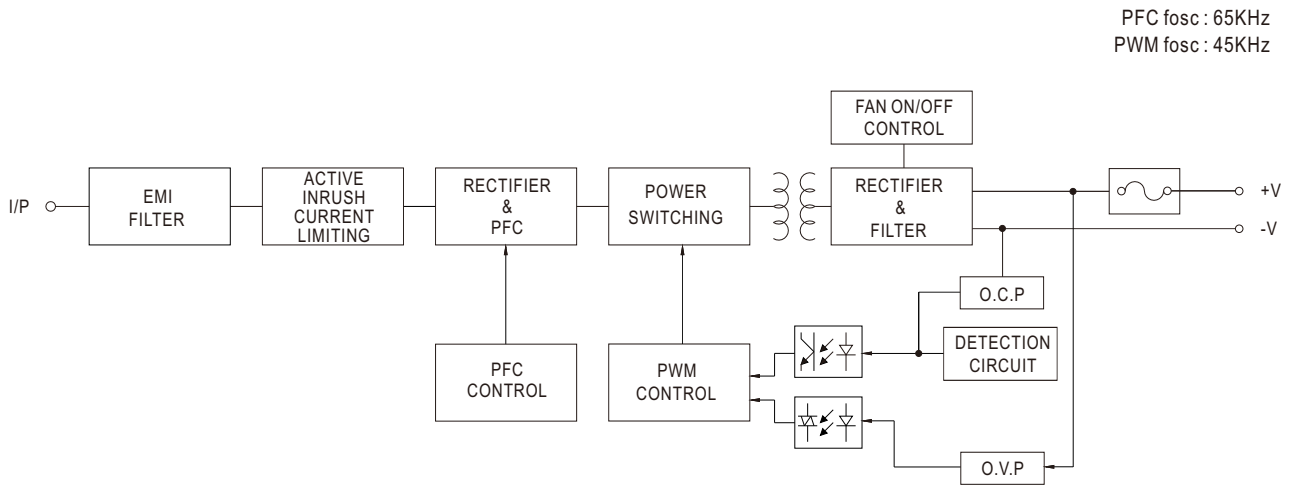
- Output connector type (other options available by customers requested, please refer to page 6)
- Nominal voltage (14.4V/28.8V/57.6V)
- Rated wattage
- Series name

| Type | Output Connector                                                                                                  | Safety                                                                               | Note     |
|------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|
| XLR  | 4 pin power pin                |  | In Stock |
| AD1  | Anderson Equivalent Connector  | (48V UL certificated same as TB Type)                                                | In Stock |
| TB   | Terminal Block                 |  | In Stock |

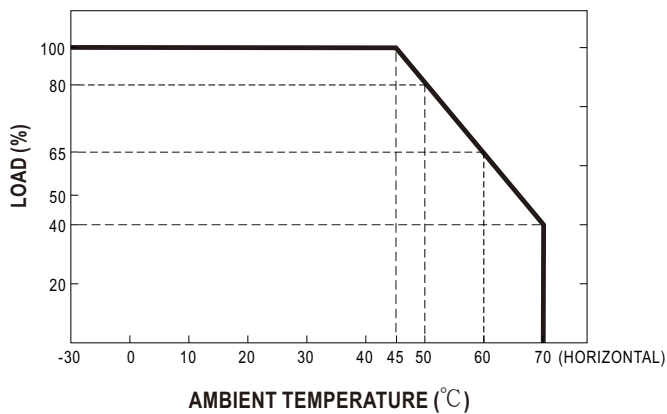
**SPECIFICATION**

| MODEL                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NPB-360-12□                                                                                                                                                                                              |                                                  | NPB-360-24□ |     | NPB-360-48□                                                              |       |  |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|-----|--------------------------------------------------------------------------|-------|--|
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | □ =XLR, AD1, TB                                                                                                                                                                                          |                                                  |             |     |                                                                          |       |  |
| OUTPUT                                  | BOOST CHARGE VOLTAGE(Vboost)(default)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 14.4V                                                                                                                                                                                                    |                                                  | 28.8V       |     | 57.6V                                                                    |       |  |
|                                         | FLOAT CHARGE VOLTAGE(Vfloat)(default)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 13.8V                                                                                                                                                                                                    |                                                  | 27.6V       |     | 55.2V                                                                    |       |  |
|                                         | VOLTAGE ADJUSTABLE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10.5 ~ 15.2V                                                                                                                                                                                             |                                                  | 21 ~ 30.4V  |     | 42 ~ 60.8V                                                               |       |  |
|                                         | OUTPUT CURRENT(Typ.)<br><small>Note.5</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20A                                                                                                                                                                                                      |                                                  | 12A         |     | 6A                                                                       |       |  |
|                                         | CURRENT ADJUSTABLE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50% ~ 100%                                                                                                                                                                                               |                                                  |             |     |                                                                          |       |  |
|                                         | MAX. POWER<br><small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 304W                                                                                                                                                                                                     |                                                  | 364.8W      |     | 364.8W                                                                   |       |  |
|                                         | RECOMMENDED BATTERY CAPACITY (AMP HOURS)<br><small>Note.4</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 65 ~ 195AH                                                                                                                                                                                               |                                                  | 40 ~ 125AH  |     | 20 ~ 65AH                                                                |       |  |
| LEAKAGE CURRENT FROM BATTERY (Typ.)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <1mA                                                                                                                                                                                                     |                                                  |             |     |                                                                          |       |  |
| INPUT                                   | VOLTAGE RANGE<br><small>Note.5</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90 ~ 264VAC      127 ~ 370VDC                                                                                                                                                                            |                                                  |             |     |                                                                          |       |  |
|                                         | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 47 ~ 63Hz                                                                                                                                                                                                |                                                  |             |     |                                                                          |       |  |
|                                         | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PF>0.98/115VAC, PF>0.95/230VAC at full load                                                                                                                                                              |                                                  |             |     |                                                                          |       |  |
|                                         | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | XLR                                                                                                                                                                                                      | 87%                                              |             | 91% |                                                                          | 92%   |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AD1                                                                                                                                                                                                      | 87%                                              |             | 91% |                                                                          | 92%   |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TB                                                                                                                                                                                                       | 88.5%                                            |             | 92% |                                                                          | 92.5% |  |
|                                         | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.5A/115VAC      2.2A/230VAC                                                                                                                                                                             |                                                  |             |     |                                                                          |       |  |
| INRUSH CURRENT (Typ.)                   | COLD START   50A at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                          |                                                  |             |     |                                                                          |       |  |
| LEAKAGE CURRENT                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.75mA/240VAC                                                                                                                                                                                           |                                                  |             |     |                                                                          |       |  |
| PROTECTION                              | SHORT CIRCUIT<br><small>Note.6</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover                                                                                                   |                                                  |             |     |                                                                          |       |  |
|                                         | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16 ~ 20V                                                                                                                                                                                                 |                                                  | 32 ~ 40V    |     | 64 ~ 75V                                                                 |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Protection type : Shut down and latch off o/p voltage, re-power on to recover                                                                                                                            |                                                  |             |     |                                                                          |       |  |
|                                         | REVERSE POLARITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | By internal fuse open                                                                                                                                                                                    |                                                  |             |     |                                                                          |       |  |
| OVER TEMPERATURE                        | Hiccup mode, recovers automatically after temperature goes down                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                  |             |     |                                                                          |       |  |
| FUNCTION                                | CHARGING CURVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 or 3 stage adjustable by DIP S.W                                                                                                                                                                       |                                                  |             |     |                                                                          |       |  |
|                                         | FAN CONTROL (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Internal RTH3 ≥ 50℃ Fan ON, ≤ 45℃ Fan OFF                                                                                                                                                                |                                                  |             |     |                                                                          |       |  |
| ENVIRONMENT                             | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -30 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                                                   |                                                  |             |     |                                                                          |       |  |
|                                         | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20 ~ 95% RH non-condensing                                                                                                                                                                               |                                                  |             |     |                                                                          |       |  |
|                                         | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                                   |                                                  |             |     |                                                                          |       |  |
|                                         | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ±0.05%/℃ (0 ~ 45℃ )                                                                                                                                                                                      |                                                  |             |     |                                                                          |       |  |
|                                         | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                                                                                                                                             |                                                  |             |     |                                                                          |       |  |
| SAFETY & EMC<br><small>(Note 7)</small> | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CB IEC62368-1,IEC60335-1/2-29, Dekra BS EN/EN62368-1,BS EN/EN60335-1/2-29, UL62368-1, AS/NZS60335-1/2-29, J62368-1(2020) (except for 48XLR & TB type) ,KC62368-1,EAC TP TC 004, BSMI CNS15598-1 approved |                                                  |             |     |                                                                          |       |  |
|                                         | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I/P-O/P:3KVAC   I/P-FG:2KVAC   O/P-FG:0.5KVAC                                                                                                                                                            |                                                  |             |     |                                                                          |       |  |
|                                         | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH                                                                                                                                                |                                                  |             |     |                                                                          |       |  |
|                                         | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Parameter                                                                                                                                                                                                | Standard                                         |             |     | Test Level / Note                                                        |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conducted                                                                                                                                                                                                | BS EN/EN55032 (CISPR32),BS EN/EN55014-1,CNS15936 |             |     | Class B                                                                  |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Radiated                                                                                                                                                                                                 | BS EN/EN55032 (CISPR32),BS EN/EN55014-1,CNS15936 |             |     | Class B                                                                  |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Harmonic Current                                                                                                                                                                                         | BS EN/EN61000-3-2                                |             |     | Class A                                                                  |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Voltage Flicker                                                                                                                                                                                          | BS EN/EN61000-3-3                                |             |     | -----                                                                    |       |  |
|                                         | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BS EN/EN55014-2,BS EN/EN55024,BS EN/EN55035, J55032(H29) (except for 48XLR & TB type), KSC 9832, KSC 9835                                                                                                |                                                  |             |     |                                                                          |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Parameter                                                                                                                                                                                                | Standard                                         |             |     | Test Level / Note                                                        |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ESD                                                                                                                                                                                                      | BS EN/EN61000-4-2                                |             |     | Level 3, 8KV air ; Level 2, 4KV contact                                  |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Radiated                                                                                                                                                                                                 | BS EN/EN61000-4-3                                |             |     | Level 2, 3V/m                                                            |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EFT / Burst                                                                                                                                                                                              | BS EN/EN61000-4-4                                |             |     | Level 2, 1KV                                                             |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Surge                                                                                                                                                                                                    | BS EN/EN61000-4-5                                |             |     | Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Earth                           |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conducted                                                                                                                                                                                                | BS EN/EN61000-4-6                                |             |     | Level 2, 3Vrms                                                           |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Magnetic Field                                                                                                                                                                                           | BS EN/EN61000-4-8                                |             |     | Level 1, 1A/m                                                            |       |  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Voltage Dips and Interruptions                                                                                                                                                                           | BS EN/EN61000-4-11                               |             |     | >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods |       |  |
| OTHERS                                  | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1324.7K hrs min.    Telcordia TR/SR-332 (Bellcore) ;    173.9K hrs min.    MIL-HDBK-217F (25℃)                                                                                                           |                                                  |             |     |                                                                          |       |  |
|                                         | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 182.7*96*49mm (L*W*H)                                                                                                                                                                                    |                                                  |             |     |                                                                          |       |  |
|                                         | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.3Kg; 10pcs/ 14Kg / 1.13CUFT                                                                                                                                                                            |                                                  |             |     |                                                                          |       |  |
| NOTE                                    | <div>1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details.</div> <div>2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.</div> <div>3. Refer to derating curve.</div> <div>4. This is MEAN WELL's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.</div> <div>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</div> <div>6. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.</div> <div>7. The charger is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br/>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )</div> <div>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></div> |                                                                                                                                                                                                          |                                                  |             |     |                                                                          |       |  |

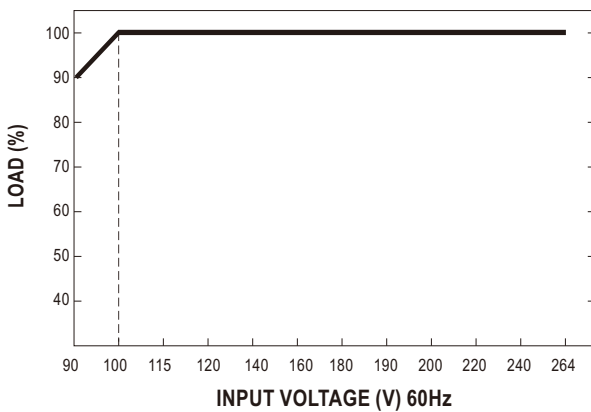
## Block Diagram



## Derating Curve



## Static Characteristics

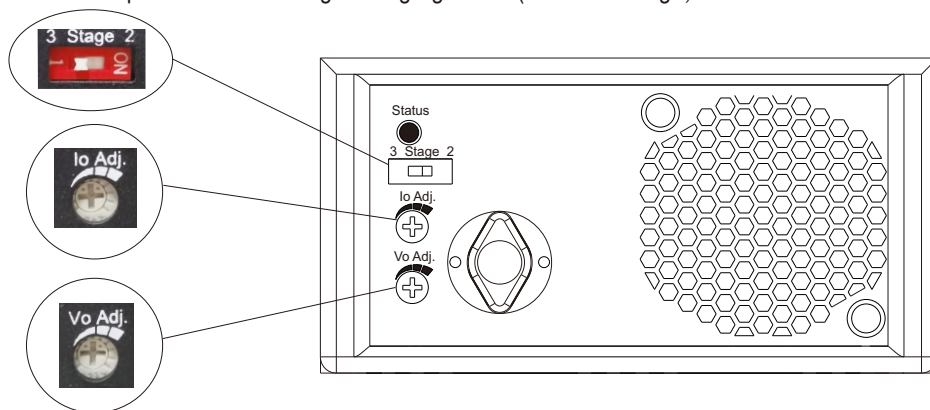


## Function Manual

### 1. Charging Curve

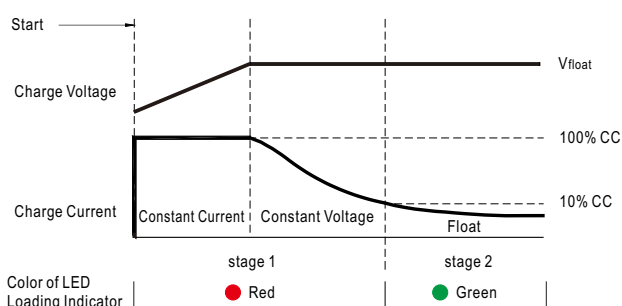
#### 1-1 2 or 3 stage selectable by DIP S.W

※ This series provides 2 or 3 stage charging curve. (Default 3 stage)

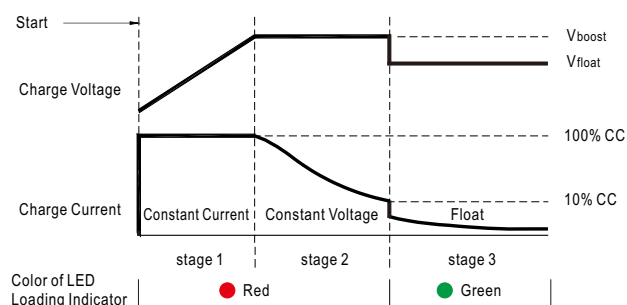


#### 1-2 Charging Curve by DIP S.W

##### ◎ 2 stage charging curve



##### ◎ 3 stage charging curve



◎ 2 stage charging cure is suitable for Li-ion batteries (lithium iron and lithium manganese),

3 stage charging cure is suitable for lead-acid batteries (flooded, Gel and AGM).

### 2. Charging voltage adjustable by VR

| Model                           | NPB-360-12 <input type="checkbox"/> | NPB-360-24 <input type="checkbox"/> | NPB-360-48 <input type="checkbox"/> |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Output voltage adjustable range | 10.5~15.2V                          | 21~30.4V                            | 42~60.8V                            |



### 3. Charging current adjustable by VR

| Model                           | NPB-360-12 <input type="checkbox"/> | NPB-360-24 <input type="checkbox"/> | NPB-360-48 <input type="checkbox"/> |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Output current adjustable range | 10~20A                              | 6~12A                               | 3~6A                                |



### 4. Front panel LED indicators & Corresponding signal at function pins

| LED   | Description                     |
|-------|---------------------------------|
| Green | Float (stage 3) or Battery full |
| Red   | Charging (stage 1 or stage 2)   |

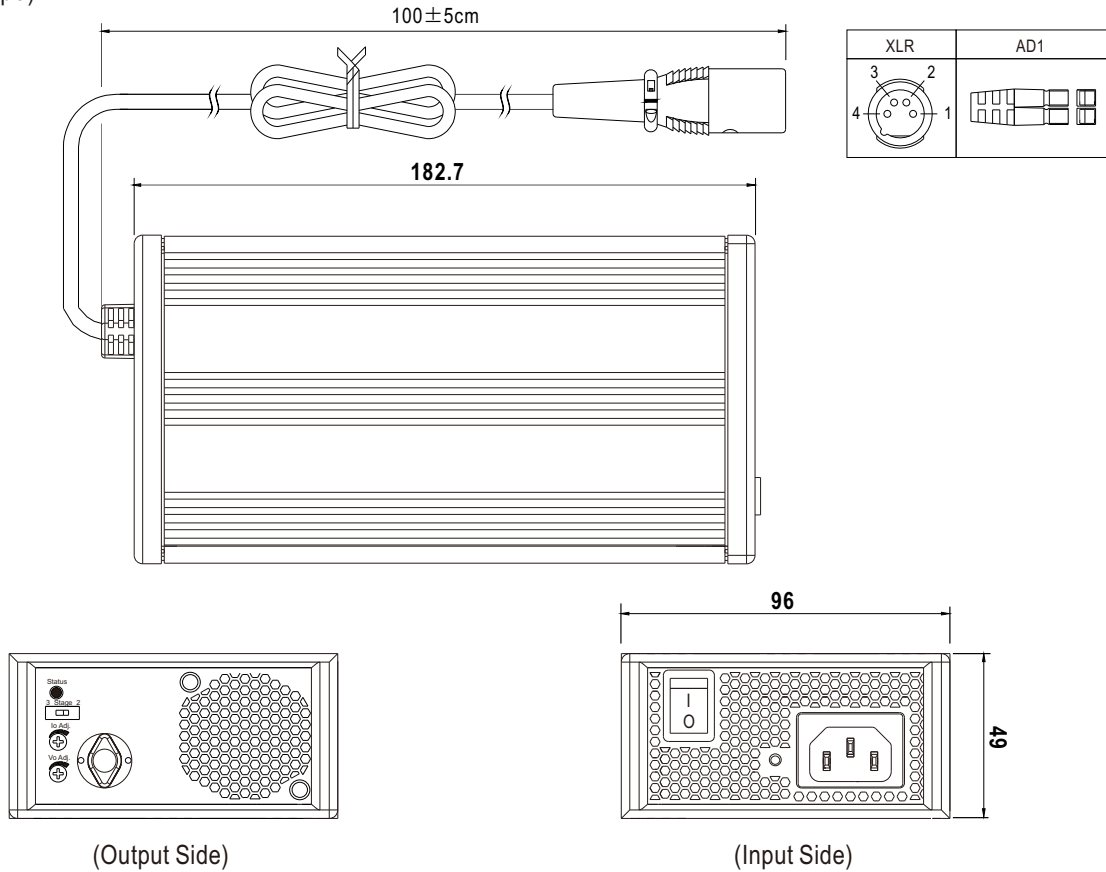


## Mechanical Specification

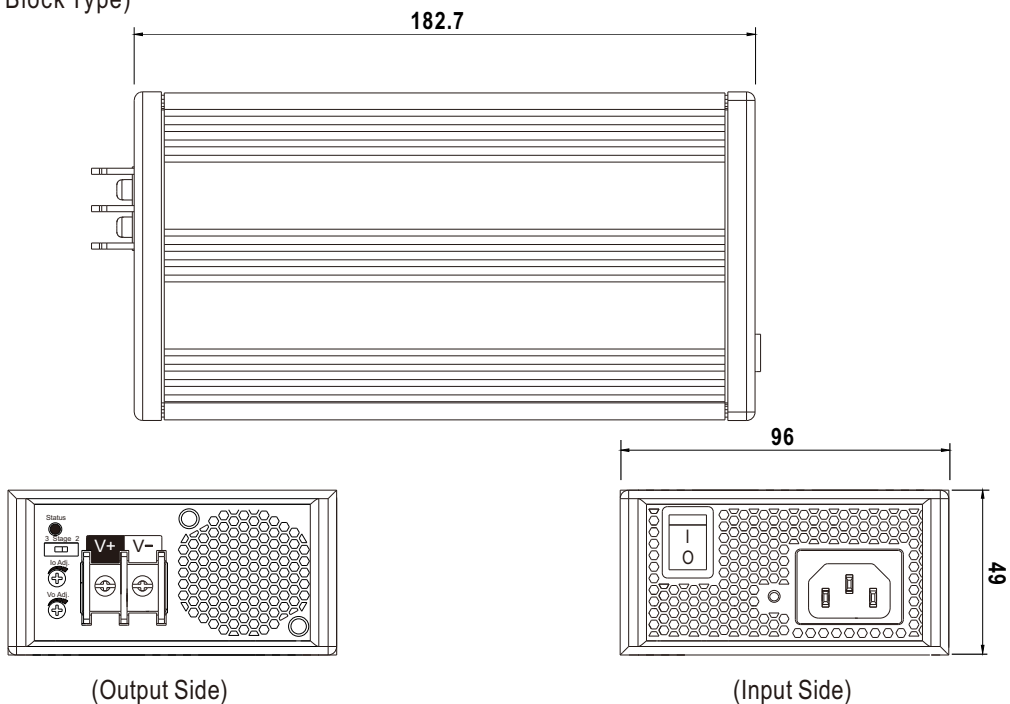
(Unit: mm , tolerance  $\pm 1$ mm)

Case No. PS-120F

### NPB-360-xx XLR/AD1 (Cable Type)



### NPB-360-xx TB (Terminal Block Type)

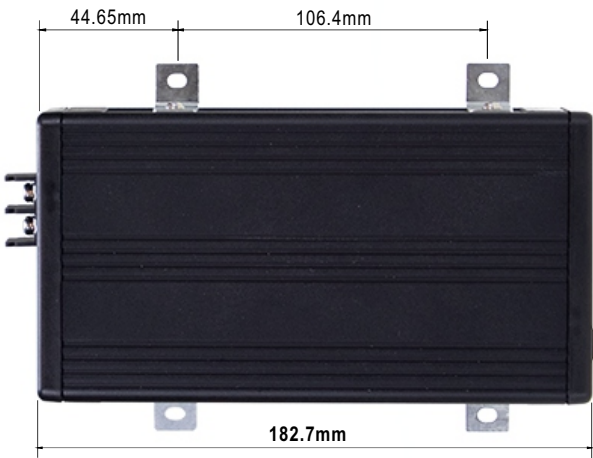
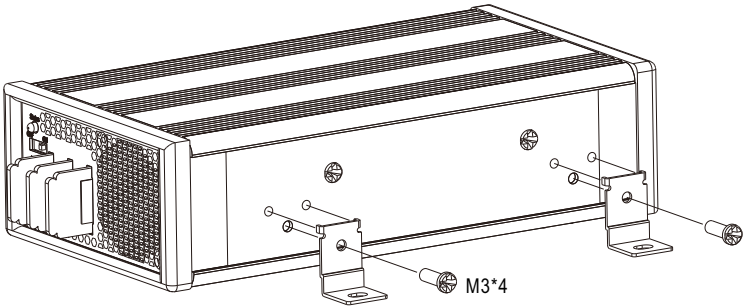


■ **Accessory List**

※ Bracket (Optional accessory, Should ordered separately)

| MW's Order No. | Item                                                                              | Quantity       |
|----------------|-----------------------------------------------------------------------------------|----------------|
| PGG2MHS012D    |  | 4pcs/per model |

■ **Installation Diagram**



## ■ Plug Assignment

### ◎ Standard Output Connector

| 4pin XLR                         |        |  |
|----------------------------------|--------|--|
| UNICABLE 89M103-4P or equivalent |        |  |
| PIN NO.                          | OUTPUT |  |
| 1,2                              | +V     |  |
| 3,4                              | -V     |  |



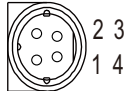
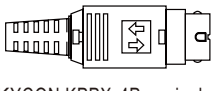
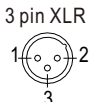
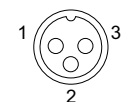
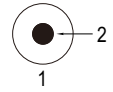
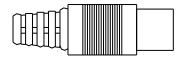
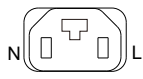
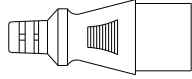
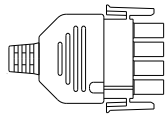
| AD1                                                                                                |           |
|----------------------------------------------------------------------------------------------------|-----------|
| housing: Anderson 1327(red), 1327G6(black) equivalent<br>contacts: Anderson 261G2 (45A) equivalent |           |
| Red(+V)                                                                                            | Black(-V) |



| TB                                              |    |
|-------------------------------------------------|----|
| DT-66-B11W-02 or equivalent<br>Rating: 300V 40A |    |
| +V                                              | -V |



### ◎ Optional DC plug: (Available in customized)

| Min. DIN 4 Pin with Lock (male)                                                                                                                                                                                                                                                                     | Type No. | Pin Assignment |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------------|
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output(<7A)  |
|   <br>KYCON KPPX-4P equivalent                   | R7B      | 1              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 2              | -Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 4              | +Vo          |
| DIN 3 Pin XLR                                                                                                                                                                                                                                                                                       | Type No. | Pin Assignment |              |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output(<10A) |
|                                             | XLR3     | 1              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 2              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo          |
| DIN 3 Pin                                                                                                                                                                                                                                                                                           | Type No. | Pin Assignment |              |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output(<7A)  |
|                                            | D3P      | 1              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 2              | -Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo          |
| DIN 2 Pin                                                                                                                                                                                                                                                                                           | Type No. | Pin Assignment |              |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output(<5A)  |
|                                            | D2P      | 1              | -Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 2              | +Vo          |
| DIN 3 Pin                                                                                                                                                                                                                                                                                           | Type No. | Pin Assignment |              |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output(<10A) |
|                                            | INL3     | N              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | L              | -Vo          |
| AMP 1-480702-0 (6.35mm) equivalent                                                                                                                                                                                                                                                                  | Type No. | Pin Assignment |              |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output(<7A)  |
|   <br>FG not connected to output connector | C4P      | 1              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 2              | +Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo          |
|                                                                                                                                                                                                                                                                                                     |          | 4              | -Vo          |

## ■ INSTALLATION MANUAL

Please refer to : <http://www.meanwell.com/manual.html>