



## HIGH FREQUENCY SOLAR INVERTER PV Series

1~4KW | 24V | 40~60A

This is a multi-function inverter/charger, combining functions of inverter, MPPT 40A/60A solar charge controller and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

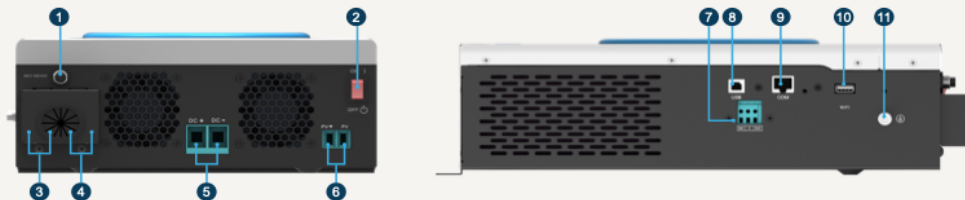


- ▲ Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- ▲ Built in MPPT 40A/60A solar charge controller
- ▲ Combining solar system, AC utility, and battery power source to supply continuous power
- ▲ Overload, short circuit and Deep discharge protection
- ▲ Cold start function
- ▲ Support USB, RS485, CAN monitoring function
- ▲ WIFI remote monitoring (optional)
- ▲ Compatible to generator
- ▲ PV/ AC activation function
- ▲ Smart battery pack BMS communication function (CAN Port)

PRODUCT SHOW

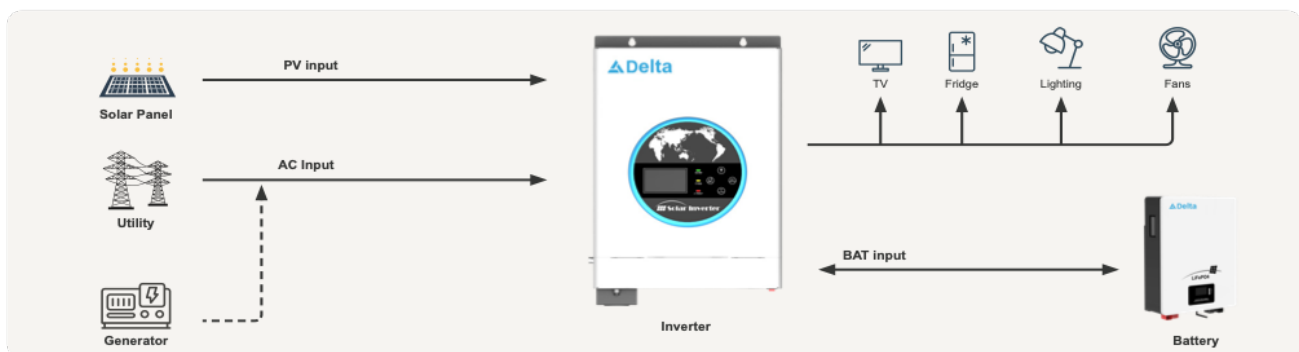


### Back panel description



- |                        |                                  |
|------------------------|----------------------------------|
| 1. Circuit breaker     | 7. Dry contact                   |
| 2. Power on/off switch | 8. USB Communication port        |
| 3. AC input            | 9. RS-485,CAN Communication port |
| 4. AC output           | 10. USB WiFi port (optional)     |
| 5. Battery input       | 11. GND                          |
| 6. PV input            |                                  |

### Solar system connection



MODEL	PV1012	PV1512	PV1224	PV2224	PV3224	PV3524	PV4024
Default Battery System Voltage	12VDC	12VDC	24VDC	24VDC	24VDC	24VDC	24VDC
<b>INVERTER OUTPUT</b>							
Rated Power	1000VA/1000W	1500VA/1500W	1200VA/1200W	2200VA/2200W	3200VA/3200W	3500VA/3500W	4000VA/4000W
Surge Power	2000VA	3000VA	2400VA	4400VA	6400VA	7000VA	8000VA
Waveform	Pure sine wave						
AC Voltage Regulation (Batt.Mode)	230VAC						
Inverter Efficiency(Peak)	90%~93%						
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)						
<b>AC INPUT</b>							
Voltage	230VAC						
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)						
Frequency Range	50Hz / 60Hz (Auto sensing)						
<b>BATTERY</b>							
Normal voltage	12VDC			24VDC			
Floating Charge Voltage	13.8VDC			27.4VDC			
Overcharge Protection	15VDC			30VDC			
<b>SOLAR CHARGER &amp; AC CHARGER</b>							
Maximum PV Array Open Circuit Voltage	105VDC	145VDC	120VDC	160VDC	160VDC	160VDC	160VDC
PV Array MPPT Voltage Range (Typ.)	15~75VDC	15~130VDC	30~96VDC	30~128VDC	30~128VDC	30~128VDC	30~128VDC
Standby Power Consumption	2W						
Maximum PV Array Power	600W	720W	1000W	1600W	1600W	1600W	1600W
Maximum Solar Charge Current	45A	60A	40A	60A	60A	60A	60A
Maximum Efficiency	98%						
Maximum AC Charge Current	20A	20A	30A	40A	60A	60A	60A
Maximum Charge Current	65A	70A	70A	100A	120A	120A	120A
<b>MECHANICAL SPECIFICATIONS</b>							
Machine Dimension (W*H*D) (mm)	224*337*98	255*318*110	224*337*98	367.4*254.5*103	367.4*254.5*103	367.4*318*121	367.4*318*121
Package Dimension (W*H*D) (mm)	300*410*178	355*402*206	299*292*184	436*331*189	436*331*189	549*410*200	549*410*200
N.W (kg)	3.6	5.5	4.7	5.5	5.5	5.9	5.9
G.W (kg)	4.3	6.0	5.5	6.5	6.5	7.2	7.2
<b>OTHER</b>							
Humidity	5% to 95% Relativ Humidity (Non-condensing)						
Operating Temperature	0°C~50°C						
Storage Temperature	-15°C -60°C						
Warranty	2years						
<b>CERTIFICATION &amp; STANDARDS</b>							
CE-EMC+LVD(EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2)							

