

## HIGH FREQUENCY OFF GRID SOLAR INVERTER PV1800 LV Series



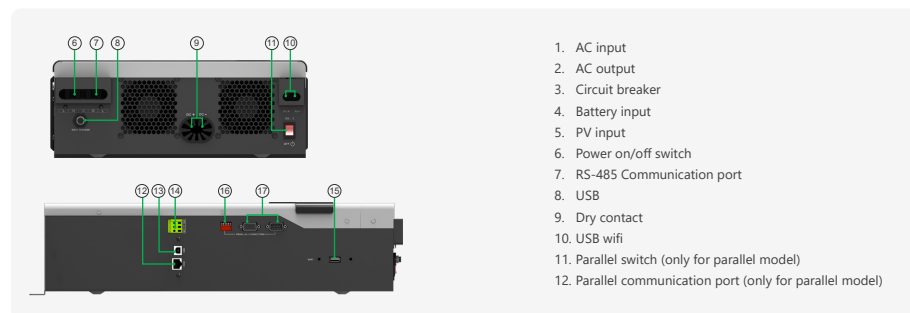
1~3KW | 120V | Wifi

PV1800 LV Series is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterrupted 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.

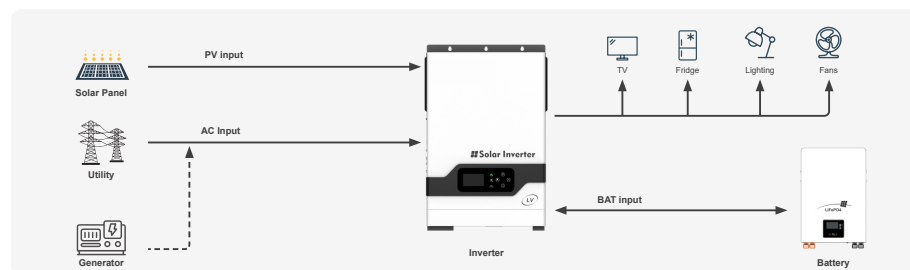


- Pure sine wave solar inverter
- Output power factor 1
- Built-in 80A MPPT solar charger
- 2 units can be wired in parallel to create a split-phase system with 120V and 240V capabilities (only for 3kw)
- Support parallel operation up to 3 units (only for 3kw)
- WIFI remote monitoring (optional)
- CAN/RS485 communication for BMS
- Compatible to generator

### Back panel description



### Solar system connection



MODEL	PV18-1012 LV	PV18-1512 LV	PV18-1524 LV	PV18-2024 LV	PV18-3024 LV	PV18-3048 LV
Nominal Battery System Voltage	12VDC	12VDC	24VDC	24VDC	24VDC	48VDC
<b>INVERTER OUTPUT</b>						
Rated Power	1000W	1500W	1500W	2000W	3000W	3000W
Surge Power	1000W	1500W	1500W	4000W	6000W	6000W
Waveform	Pure sine wave					
AC Voltage Regulation (Batt.Mode)	120VAC ±5%					
Inverter Efficiency(Peak)	90%~93%					
Transfer Time	10ms (UPS / UL) 20ms (APL)					
<b>AC INPUT</b>						
Voltage	120VAC					
Selectable Voltage Range	107~132VAC(UL)					
Frequency Range	50Hz / 60Hz(Auto sensing)					
<b>BATTERY</b>						
Normal voltage	12VDC	12VDC	24VDC	24VDC	24VDC	48VDC
Floating Charge Voltage	13.7VDC	13.7VDC	27.4VDC	27.4VDC	27.4VDC	54.8VDC
Overcharge Protection	15VDC	15VDC	30VDC	30VDC	30VDC	60VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>						
Max. PV Array Open Circuit Voltage	145V	145V	160V	160V	450VDC	250VDC
Max. Solar Charge Current	60A	60A	60A	60A	100A	80A
PV Array MPPT Voltage Range	15~130VDC	15~130VDC	30~128VDC	30~128VDC	90~430VDC	60~200VDC
PV Input Power	750W	750W	1500W	1500W	4000W	4000W
Maximum Efficiency	98%					
Maximum AC Charge Current	10A	10A	30A	40A	80A	60A
Maximum Charge Current	70A	70A	90A	100A	100A	140A
<b>MECHANICAL SPECIFICATIONS</b>						
Machine Dimension (W*H*D)	224*321*95mm	255*321*125mm	254.5*367.4*103mm		329*485*134mm	
Package Dimension (W*H*D)	410*188*300mm	416*216*342mm	436*189*331mm		575*425*229	
N.W	5.0kg	5.5kg	5.4kg	5.5kg	8kg	10kg
G.W	6.0kg	6.5kg	6.4kg	6.5kg	9.5kg	11.5kg
<b>OTHER</b>						
Humidity	5% to 95% Relative humidity (Non-condensing)					
Operating Temperature	-10°C~50°C					
Storage Temperature	-15°C ~60°C					
<b>CERTIFICATION &amp; STANDARDS</b>						
CE-LVD (IEC62109-1, EN IEC62109-2); UKCA-(BS EN 62109-1, BS EN 62109-2)						