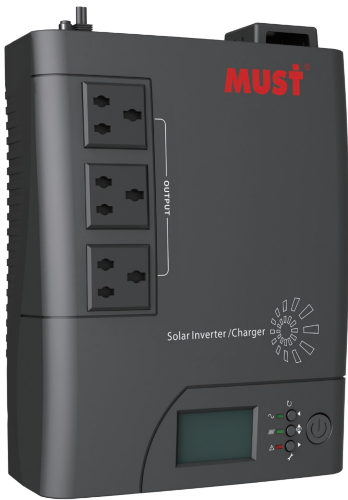


HIGH FREQUENCY OFF GRID SOLAR INVERTER

PV1500 Series

1~2KVA | MPPT 45A | AC 15A/20A



It is a cost effective, intelligent solar inverter which accepts Solar & Utility input at the same time. The comprehensive LCD display offers user- configurable and easy-accessible button adjustment such as battery charging current, AC/solar charger priority and DC priority. When battery voltage is low, it will automatically switch to AC grid to supply continuous power to the loads.

- Built-in 45A MPPT Solar Charge Controller
- 15A@24V, 20A@12V standard charging current from utility AC
- AC/solar priority for charging via MFD
- Different charging mode for different kinds of batteries
- Overload & short-circuit protection, Battery reverse polarity protection, Deep discharge protection
- Auto restart while AC/solar is recovering Adjustable solar and utility charging current
- Support two kinds of batteries include LiFePO4 Lithium Battery Pack and Lead-acid Battery.
- Support one key battery type fast setting
- Automatic activate protected lithium battery pack by Utility AC.
- Automatic activate protected lithium battery pack by Solar PV
- Low shutdown loss for energy storage system application

Back panel description

1KW/ 2KW

1. Output Receptacle (s)

2. LCD display

3. Status indicators

4. Setting button

5. Power switch

6. External battery connectors

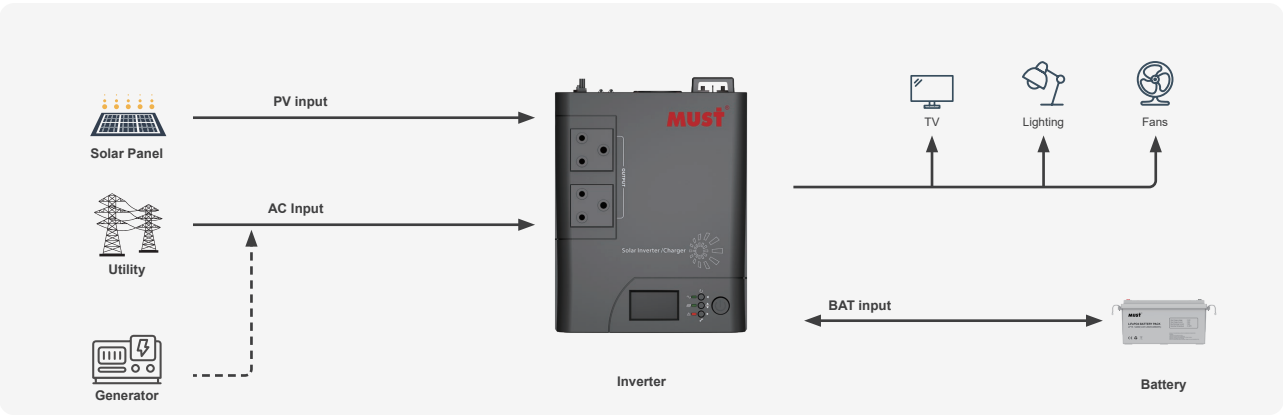
7. FAN

8. Solar panel terminal

9. Input circuit breaker (plastic case)

10. AC input

Solar system connection



MODEL	PV15-1012		PV15-2024	
Nominal Battery System Voltage	12VDC		24VDC	
NVERTER OUTPUT				
Rated Power	1000VA / 600W		2000VA / 1200W	
Waveform	Pure Sine Wave			
Nominal Output Voltage RMS	230V			
Output Voltage Regulation	+ 10/-18%			
Output Frequency	50Hz / 60Hz ± 1Hz			
Inverter Efficiency (Peak)	>90%			
Line Mode Efficiency	>95%			
Typical Transfer Time	Typical < 10ms , 20ms max			
AC INPUT				
Voltage	230VAC			
Voltage Range	170~280VAC (UPS) / 90~280VAC (APL) / 184~258VAC (VDE)			
Frequency Range	50Hz/ 60Hz (auto sensing)			
BATTERY				
Note: Below Parameters (PB) Lead-acid Battery / (LI) LiFePO4 Lithium Battery Pack - 12V(4 Series) 24V(8 Series)				
Nominal Input Voltage	12VDC		24VDC	
Low Battery Cutoff	10.5VDC(PB)	11.5VDC(LI)	21.0VDC(PB)	23.0VDC(LI)
Low Battery Alarm	11.0VDC(PB)	12.0VDC(LI)	22.0VDC(PB)	24.0VDC(LI)
Low Battery Voltage Recover	12.5VDC(PB)	12.8VDC(LI)	25.0VDC(PB)	25.6VDC(LI)
High Battery Voltage Recover	14.5VDC(PB)	14.5VDC(LI)	29.0VDC(PB)	29.0VDC(LI)
High Battery Voltage Cutoff	15.0VDC(PB)	15.0VDC(LI)	30.0VDC(PB)	30.0VDC(LI)
SOLAR CHARGER & AC CHARGER				
Charger Voltage boost	14.4VDC(PB)	14.4VDC(LI)	28.8VDC(PB)	28.8VDC(LI)
Charger Voltage float	13.8VDC(PB)	14.4VDC(LI)	27.6VDC(PB)	28.8VDC(LI)
Maximum PV Charge Current	45A (max)			
Maximum PV Array Power	600W		1200W	
MPPT Operating Voltage Range	15 ~ 75VDC		30 ~ 75VDC	
Maximum PV Array Open Voltage	105V			
Maximum Efficiency	> 95%			
AC Charging Current	10A/20A (Can be set)		7A/15A (Can be set)	
Maximum Charge Current AC+PV	10~65A (Can be set)		10~60A (Can be set)	
BYPASS & PROTECTION				
Overload Protection (SMPS Load)	FUSE			
Output Short Circuit Protection	FUSE			
Bypass Fuse Rating	7A		10A	
Max Bypass Current	7A		10A	
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)(mm)	235*290*92		235*290*92	
Package Dimension (W*H*D)(mm)	595*375*315		595*375*315	
N.W (kg)	2.8		3.0	
G.W (kg)	3.5		3.7	
Material	Plastic case		Plastic case	
OTHER				
Operation Temperature Range	0°C to 40°C			
Audible Noise	50dB MAX			
Warranty	2years			
Display	LED+LCD			
CERTIFICATION & STANDARDS				

*The technical specifications of this document are subject to change without any notice