

SOLAR INVERTER PV1500 LV Series

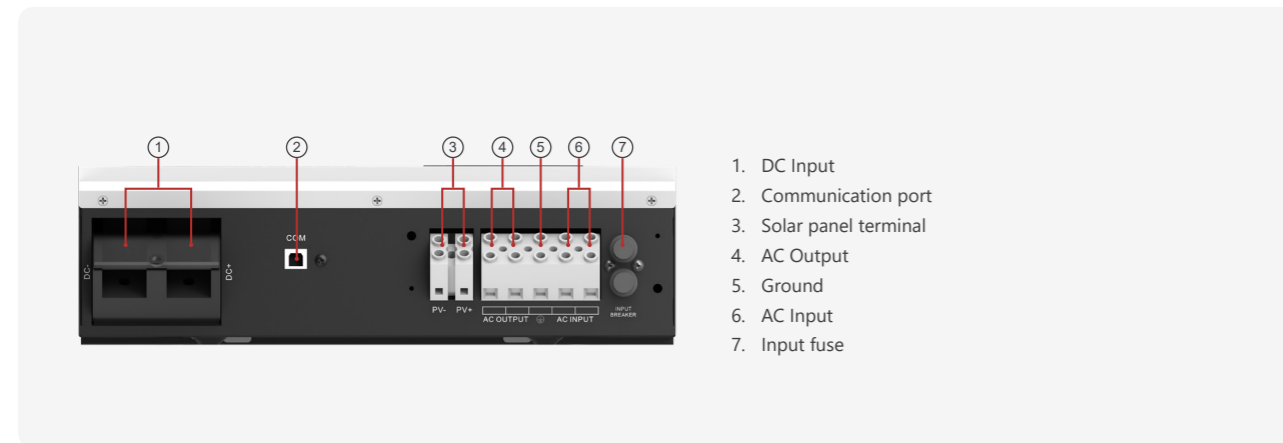
600W-1500W | 120VAC



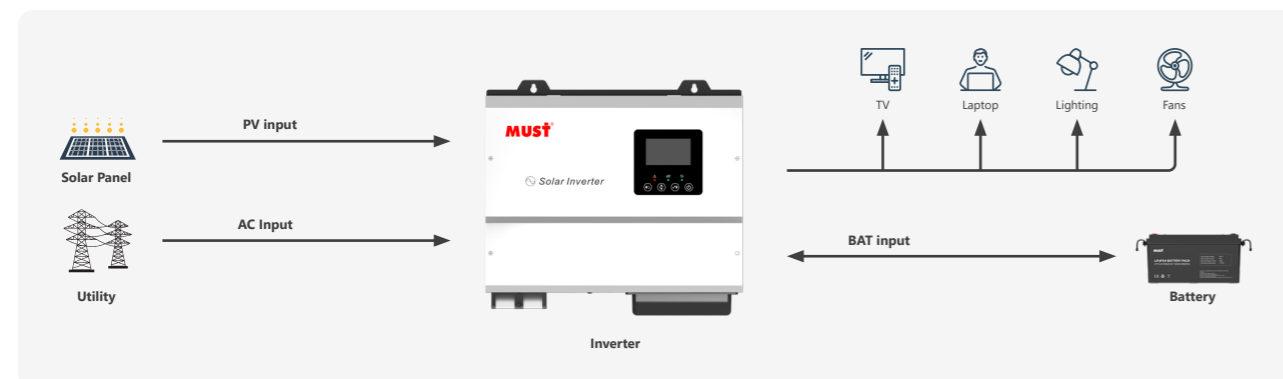
It is a cost effective, intelligent solar inverter which accepts Solar & Utility input at the same time. The comprehensive LCD display offers user-configurable and easy-accessible button adjustment such as battery charging current, AC/solar charger priority and DC priority. When battery voltage is low,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

- Built-in 40A MPPT Solar Charge Controller
- 40A@12VDC or 20A@24VDC 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 fast max charging current setting
- Support two kinds of batteries: LiFePO4 Lithium Battery Pack and Lead-acid Battery
- Automatic activate lithium battery pack which is be over discharged no output when AC Grid or PV input is OK

Back panel description



Solar system connection



MODEL	PV15-0612 LV	PV15-1012 LV	PV15-1524 LV	
Nominal Battery System Voltage	12VDC	12VDC	24VDC	
INVERTER OUTPUT				
Rated Power	600VA / 600W	1000VA / 1000W	1500VA / 1500W	
Waveform	Pure Sine Wave			
Nominal Output Voltage RMS	120VAC			
Output Voltage Regulation	+10/-18%			
Output Frequency	50Hz / 60Hz ± 1Hz			
Inverter Efficiency (Peak)	>90%			
Line Mode Efficiency	>95%			
Typical Transfer Time	Typical 10ms(UPS,UL) , Typical 20ms(APL,DEF)			
AC INPUT				
Voltage	120VAC			
Voltage Range	74 ~ 145VAC ± 3%			
Frequency Range	40 ~ 65Hz ± 2Hz			
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)
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)
SOLAR CHARGER & AC CHARGER				
Maximum PV Charge Current	40A (max)			
Maximum PV Array Power	600W		1200W	
MPPT Operating Voltage Range	15 ~ 75VDC		30 ~ 75VDC	
Maximum PV Array Open Voltage	105VDC			
Maximum Efficiency	> 95%			
AC Charging Current Max	40A (Can be set)		20A (Can be set)	
Maximum Charge Current AC+PV	80A (Can be set)		60A (Can be set)	
BYPASS & PROTECTION				
Output Short Circuit Protection	FUSE			
Bypass breaker Rating	15A	20A	30A	
Max Bypass Current	15A	20A	30A	
Battery Fuse Current	50A * 2	50A * 3	40A * 3	
DIMENSIONS				
Machine Dimension (W*H*D)(mm)	320*264.5*95			
Package Dimension (W*H*D)(mm)	390*335*167			
N.W(kg)	4.5		4.7	
G.W(kg)	5.4		5.6	
OTHER				
Operating Temperature Range	0°C to 45°C			
Audible Noise	50dB MAX			
Display	LED+LCD			
Standard Warranty	2 year			
CERTIFICATION & STANDARDS				
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*The technical specifications of this document are subject to change without any notice