


High Frequency Off Grid Solar Inverter

PV1500 Series (1KVA-2KVA)



Features

- Built-in 30A MPPT Solar Charge Controller
- 10A or 15A 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 fast max charging current setting
- Automatic activate lithium battery pack which is be over discharged no output when AC input is OK

Introduction

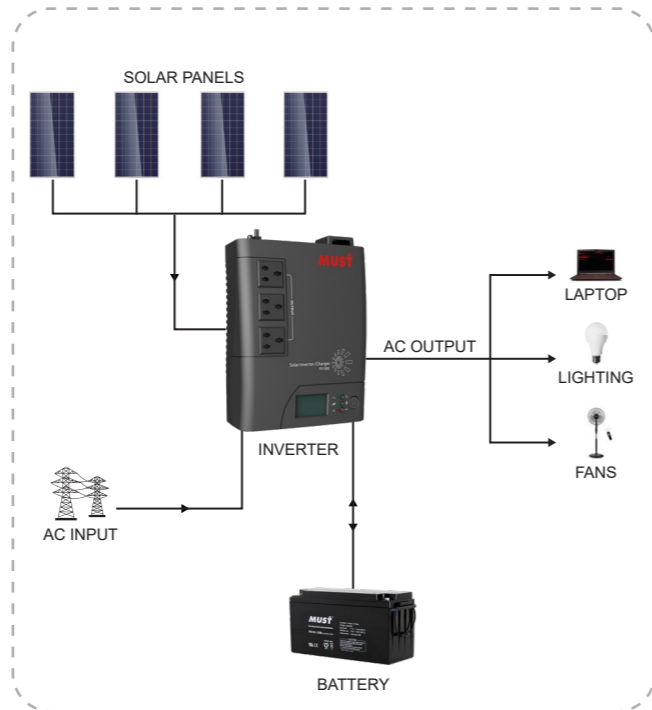
It is a cost effective, intelligent solar inverter which accepts Solar & Utility input at the same time. The comprehensive LCD display offers user-configurable and easy-accessible button adjustment such as battery charging current, AC/solar charger priority and DC priority. When battery voltage is low,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

Back panel printing description



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



Specification

MODEL	PV15-1012	PV15-2024			
Nominal Battery System Voltage	12VDC	24VDC			
INVERTER OUTPUT	Rated Power	1000VA / 600W			
	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 , 15ms max			
	AC INPUT	Voltage	230VAC		
Voltage Range		184 ~ 278VAC ± 3%			
Frequency Range		45 ~ 65Hz ± 2Hz			
Note: Below Parameters (PB) Lead-acid Battery / (LI) LiFePO4 Lithium Battery Pack - 12V(4 Series) 24V(8 Series)					
BATTERY	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)	14.3VDC(LI)	29.0VDC(PB)	28.6VDC(LI)
	High Battery Voltage Cutoff	15.0VDC(PB)	14.8VDC(LI)	30.0VDC(PB)	29.6VDC(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	30A (max)			
	Maximum PV Array Power	430W	860W		
	MPPT Operating Voltage Range	14 ~ 75VDC		28 ~ 75VDC	
	Maximum PV Array Open Voltage	100VDC			
	Maximum Efficiency	> 95%			
	Standby Power Consumption	< 2W			
	AC Charging Current	10A / 15A (Can be set)		5A / 10A (Can be set)	
	Maximum Charge Current AC+PV	10 ~ 45A (Can be set)		10 ~ 40A (Can be set)	
BYPASS & PROTECTION	Overload Protection (SMPS Load)	FUSE			
	Output Short Circuit Protection	FUSE			
	Bypass Fuse Rating	6.3A	10A		
	Max Bypass Current	6.3A	10A		
	PV Charge Fuse Current	50A			
MECHANICAL SPECIFICATIONS	Machine Dimension (W*H*D)	235*290*92mm			
	Package Dimension (W*H*D)	/			
	G.W (kg)	/			
	N.W (kg)	/			
OTHER	Operation Temperature Range	0°C to 40°C			
	Audible Noise	50dB MAX			
	Display	LED+LCD			