

LOW FREQUENCY SOLAR INVERTER

PV2900 LHP Series

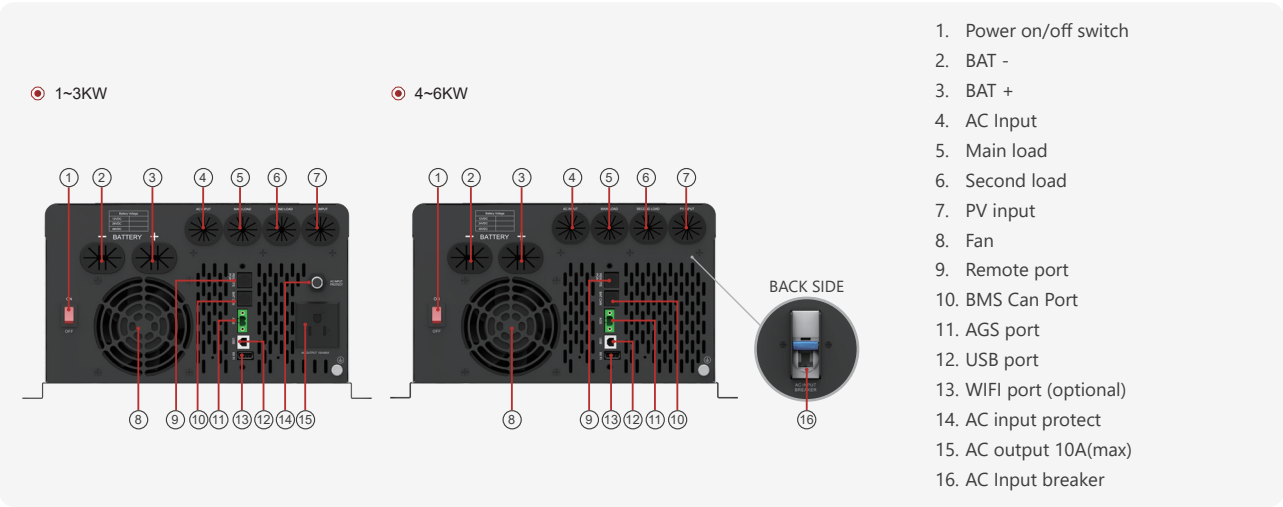
1~6KW | AC 120V | MPPT80A | WIFI | BMS | Dual output

PV2900 LHP series is very economical pure sine wave solar inverter, AC voltage 110V/120V, AC charger inbuilt, from 20A to 60A; MPPT solar charger 80A inbuilt; Solar/AC priority is configurable, when setting solar priority, solar will charge batteries as first priority, and AC can also charge batteries when solar charger current is not enough, it enables inverter to operate with all kinds of home appliances, widely selling to Latin America.

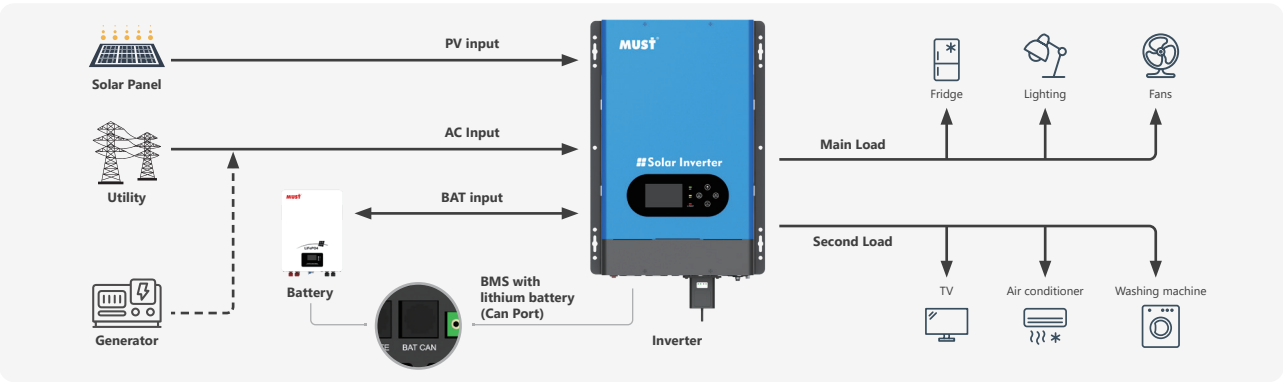


- Pure sine wave output
- 3 Steps charging
- Overload and short-circuit protection
- Set charging voltage/charging current.
- Battery low voltage shutdown point can be set to 10/10.5/11/11.5/12V
- Power-save mode
- Set utility priority/ Battery priority
- Set utility input wide/narrow range
- Inverter voltage can be set to 120V:110V/115V/120V
- Inverter frequency can be set to 50/60Hz
- Set utility charging on/off switch
- 80A MPPT charger
- Acid or Lithium Select
- WiFi port (optional)
- With BMS lithium battery communication function (CAN port)
- Dual output for smart load management

Back panel description



Solar system connection



MODEL	PV29-1KW-LHP		PV29-1.5KW-LHP		PV29-2KW-LHP		PV29-3KW-LHP		PV29-4KW-LHP		PV29-5KW-LHP		PV29-6KW-LHP	
Nominal Battery System Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC	24VDC	48VDC	48VDC	48VDC	48VDC	48VDC
INVERTER OUTPUT														
Rated Power	1 KW		1.5 KW		2 KW		3 KW		4 KW		5 KW		6 KW	
Surge Rating	3000VA		4500VA		6000VA		9000VA		12000VA		15000VA		18000VA	
Capable Of Starting Electric Motor	1P		1P		1.5P		2P				3P			
Waveform	Pure sine wave / same as input (bypass mode)													
Nominal Output Voltage RMS	110V / 115V / 120VAC(±10% RMS)													
Output Frequency	50Hz / 60Hz ±0.3Hz													
Inverter Efficiency (Peak)	>88%													
Line Mode Efficiency	>95%													
Power Factor	1.0													
Typical Transfer Time	10ms(max)													
Overload	100% < Load < 110% (alarm 5min then stop output and fault code 07) 110% < Load < 125% (alarm 60s then stop output and fault code 07) Load > 125% (alarm 10s then stop output and fault code 07)													
AC INPUT														
Voltage	110/120VAC													
Selectable Voltage Range	75~135VAC (For personal computers)													
Frequency Range	50Hz / 60Hz(Auto sensing) 40~80Hz													
BATTERY														
Minimum Start Voltage	(10V / 10.5V / 11V / 11.5V/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)													
Low Battery Alarm	(10V / 10.5V / 11V / 11.5V/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)													
Low Battery Cut Off	10V / 10.5V / 11V / 11.5V/ 12V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)													
High Voltage Alarm	(12-14.5V)+1V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)													
High Battery Voltage Recover	(12-14.5V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)													
Idlie Consumption-Search Mode	Load ≤50±20W(120V)/100±20W(220V)													
CHARGER														
Output Voltage	Depends on battery type													
Overcharge Protection S.D.	15.5VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)													
Maximum Charge Current	30A	20A	45A	25A	60A	30A	40A	20A	60A	30A	35A	40A		
PAYPASS & PROTECTION														
Input Voltage Waveform	Sine wave (grid or generator)													
Nominal Input Frequency	50Hz or 60Hz													
Overload Protection (SMPS Load)	Circuit breaker													
Output Short Circuit Protection	Circuit breaker													
AC Input Breaker	1-3K/40A									4-6K/63A				
SOLAR CHARGER														
Maximum PV Array Power	1250W	2500W	1250W	2500W	1250W	2500W	2500W	5000W	2500W	5000W	5000W	5000W	5000W	5000W
Maximum PV Charge Current	80A±4A													
DC Voltage	12V/ 24V auto work									24V/ 48V auto work				
MPPT Range @ Operating Voltage	15~95VDC @ 12V/ 30~230VDC @ 24V									30~230VDC @ 24V/ 60~230VDC @ 48V				
Maximum PV Array Open Circuit Voltage	245VDC													
Standby Power Consumption	<2W													
MECHANICAL SPECIFICATIONS														
Mounting	Wall Mount													
Machine Dimension (W*H*D)(mm)	274*484*174									274*568.5*174				
Package Dimension (W*H*D)(mm)	583.5*255*376									668.5*255*376				
N.W(kg)	/									/				
G.W(kg)	/									/				
OTHER														
Operating Temperature Range	0°C to 40°C													
Storage Temperature	-15°C to 60°C													
Audible Noise	60dB MAX													
Display	LED+LCD													
Standard Warranty	2 years													
CERTIFICATION & STANDARDS														
CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)														

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