

PPPSL-Solar Inverter



Key Features:

- **IP66 Certified Enclosure** – Ensures complete protection against dust and powerful water jets, suitable for harsh environments.
- **User-Friendly HMI LCD Design** – Simplifies system configuration and real-time monitoring.
- **Supports Energy Storage from Generator** – Enables flexible energy input sources for off-grid or hybrid setups.
- **Dual Inputs and Dual Outputs** – Facilitates smart energy management and system reliability.
- **Built-in Wi-Fi with Mobile App** – Allows easy remote monitoring and control via Smartphone.
- **150% Unbalanced Load Support** – Handles demanding load conditions efficiently.
- **User-Adjustable Charging Current and Voltage** – Provides customizable charging settings for different battery types.
- **Reserved Communication Port for BMS (RS485)** – Supports seamless battery management system integration.
- **Parallel Operation up to 6 Units** – Scalable design for higher capacity and redundancy.

PERPETUAL POWER SERVICES PRIVATE LIMITED

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MODEL	PPPSL-Solar 8KW	PPPSL-Solar 10KW	PPPSL-Solar 12KW
MAXIMUM PV INPUT POWER	12000W	15000W	18000W
RATED OUTPUT POWER	8000W	10000W	12000W
MAXIMUM CHARGING POWER	8000W	10000W	12000W
GRID-TIE OPERATION PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	720VDC/900VDC	720VDC/900VDC	720VDC/900VDC
Start-up Voltage/Initial Feeding Voltage	150VDC/150VDC	150VDC/150VDC	150VDC/150VDC
MPP Voltage Range	150VDC~850VDC	150VDC~850VDC	150VDC~850VDC
Full MPP Voltage Range	400VDC~850VDC	420VDC~850VDC	400VDC~850VDC
Number of MPP Tracker s/Maximum Input Current	2/A: 15A,B: 15A	2/A: 18A,B: 18A	2/A: 27A,B: 18A
GRID OUTPUT (AC)			
Nominal Output Voltage	230VAC(P-N)/400VAC(P-P)	230VAC(P-N)/400VAC(P-P)	230VAC(P-N)/400VAC(P-P)
Output Voltage Range	184-265VAC* per phase	184-265VAC* Per Phase	184-265VAC* Per Phase
Nominal Output Current	11.6A Per Phase	14.5A Per Phase	17.4A Per Phase
Power Factor range	0.9 lag~0.9 lead	0.9 lag~0.9 lead	0.9 lag~0.9 lead
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	>96%	>96%	>96%
European Efficiency @V nominal	>95%	>95%	>95%
OFF-GRID OPERATION AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140V AC Per Phase/180V AC Per Phase		
Acceptable Input Voltage Range	170-290V AC Per Phase		
Maximum AC Input Current	40A		
PV INPUT (DC)			
Maximum DC Voltage	900VDC		
MPP Voltage Range	150V DC~850V DC		
Full MPP Voltage Range	400V DC~850V DC	420V DC~850V DC	400V DC~850V DC
Number of MPP Trackers/Maximum Input current	2/A: 15A,B: 15A	2/A: 18A,B: 18A	2/A: 27A,B: 18A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	230V AC(P-N)/400V AC(P-P)		
Output Wave form	Puresine wave		
Efficiency (DC to AC)	>93%		
HYBRID OPERATION PV INPUT (DC)			
Maximum DC Voltage	900VDC		
Start-up Voltage /Initial Feeding Voltage	150VDC/150VDC	150VDC/150VDC	150VDC/150VDC
MPP Voltage Range	150VDC~850VDC	150VDC~850VDC	150VDC~850VDC
Full MPP Voltage Range	400VDC~850VDC	420VDC~850VDC	400VDC~850VDC
Number of MPP Trackers/Maximum Input current	2/A: 15A,B: 15A	2/A: 18A,B: 18A	2/A: 27A,B: 18A
GRIDOUTPUT(AC)			
Nominal Output Voltage	230V AC(P-N)/400V AC(P-P)		
Output Voltage Range	184-265V AC*Per Phase		
Nominal Output Current	11.6A Per Phase	14.5A Per Phase	17.4A Per Phase
AC INPUT			
AC Start- up Voltage /Auto Restart Voltage	120-140V AC Per Phase/180V AC Per Phase		
Acceptable Input Voltage Range	170-290V AC Per Phase		
Maximum AC Input Current	40A		
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	230VAC(P-N)/400VAC(P-P)		
Efficiency (DC to AC)	>93%		
BATTERY& CHARGER			
Battery Voltage Range	40~60VDC		
Maximum Discharging Current	200A	220A	250A
Maximum Charging Current	160A	200A	240A
GENERAL PHYSICAL			
Dimension, D x W x H(mm)	247x500x650		
Net Weight (kgs)	50		54
INTERFACE			
Communication Port	RS-232,RS-485,USB,CAN and Wi-Fi		
Intelligent Slot	Optional for SNMP and Mod bus cards		
ENVIRONMENT			
Humidity	0~100%RH(Non-condensing)		
Operating Temperature	-25to50°C,>45°Cpower derating		
Altitude	0~1000m**		
PROTECTION & CERTIFICATE			
Safety	IEC62116,IEC61727,IEC61683,IEC62109,IEC61000-6-2:2019,IEC61000-6-4:2019, IEC61000-3-11:2019,EN61000-3-12:2011		
Grid Connection Standard	EN50549-1,VDE-AR-N4105		

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