

LPR-F6.2K-EU1-48PK

LPR-F11K-EU1-48PK

6.2kW/11kW

● The LPR-F6.2K-EU1-48PK is a compact 48V off-grid solar inverter charger designed for residential backup, small off-grid systems and unstable-grid areas. It combines pure sine wave output, high-voltage PV input, MPPT solar charging, lithium battery communication and up to 12-unit parallel expansion in one cost-effective platform. The LPR-F11K-EU1-48PK is a high-power 48V off-grid solar inverter charger for larger residential and light commercial energy storage systems. It supports dual MPPT input, allowing two PV arrays to be connected separately, and dual AC output, helping separate priority loads from secondary loads in backup and off-grid systems.

Recommended Applications

LPR-F6.2K-EU1-48PK

- Home Backup/Off-Grid Houses/Small Shops
- Farms/Rural Power/Unstable-Grid Areas

LPR-F11K-EU1-48PK

- Large Homes/Small Commercial Loads
- Farms/Workshops
- Backup Systems /Generator-Assisted Solar Storage



Features

Cost-Effective Power

A practical 48V off-grid inverter solution for price-sensitive solar storage projects, balancing reliable output, MPPT charging and expandable system capacity.

Lithium BMS

RS485 lithium battery communication allows compatible battery systems to coordinate charging and discharging with the inverter for safer system operation.

Generator or Grid Compatible

Compatible with utility grid or generator input, making it suitable for unstable-grid regions, rural backup systems and diesel-generator assisted applications.

Parallel Expansion

Supports system capacity expansion through parallel operation, making it suitable for projects that may grow from single-unit backup to larger off-grid systems.

Batteryless Mode

Supports operation without batteries in suitable solar conditions, giving customers a lower-entry configuration option before adding storage later.

High PV Input

Up to 500Vdc PV open-circuit voltage supports longer solar strings, helping reduce PV-side current, cable loss and installation complexity.

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Model	LPR-F6.2K-EU1-48PK		LPR-F11K-EU1-48PK
CAPACITY	6.2KVA/6.2KW		11KVA/11KW
Maximum PV Input Power	6.5KW		11KW
Twin AC Output Function	NO		YES
Maximum Main Output Power	6.2KVA/6.2KW		11KVA/11KW
Maximum Second Output Power	NO		5.5KVA/5.5KW
Maximum Total Output Power	6.2KVA/6.2KW		11KVA/11KW
Parallel Capability	YES, 6 units		
Lithium Battery Communication	YES(RS485)		
Lithium Battery Activation	YES(By PV or Utility)		
Built-in WIFI	Optional		
INPUT			
Nominal Voltage	230VAC		
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)		
Frequency	50/60 Hz (Auto sensing)		
OUTPUT			
Nominal Voltage	220/230/240VAC		
Surge Power	12400VA		22000VA
Frequency	50/60 Hz		
Waveform	Pure Sine wave		
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)		
Peak Efficiency (PV to INV)	96%		
Peak Efficiency (Battery to INV)	93%		
Overload Protection	5s@ >=140% load; 10s@110%~140% load		
Crest Factor	3:1		
Admissible Power Factor	0.6~1 (inductive or capacitive)		
BATTERY			
Battery Voltage	48VDC		
Maximum Discharge Current	135A		220A
Floating Charge Voltage	54VDC		
Overcharge Protection	63VDC		
Charging Method	CC/CV		
Solar Charger & AC Charger			
Solar Charger TYPE	MPPT		
Max.PV Array Power	6500W		5500W*2
Max. PV Array Open Circuit Voltage	500VDC		
PV Array MPPT Voltage Range	60VDC~500VDC		
Max. Solar Input Current	27A		18A*2
Max. Solar Charge Current	120A		160A
Max. AC Charge Current	80A		120A
Max. Charge Current	120A		160A
PHYSICAL			
Dimensions, D x W x H(mm)	457x314.5x131		544.5x414.5x123
Package Dimensions, D x W x H(mm)	637x495x214		
Net Weight(Kgs)	9.6		15.8
Gross weight(Kgs)	10.7		16.9
Communication Interface	RS232/RS485		RS232/RS485/Dry-contact
LCD	YES		
ENVIRONMENT			
Operating Temperature Range	-10°C to 55°C		
Storage temperature	-15°C~ 60°C		
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Ingress Protection	IP21		

• Specifications are subject to change without prior notice.
• Product images are for reference only. Actual product appearance may vary depending on configuration.
• Battery compatibility should be confirmed according to BMS protocol and system configuration.
• PV string design must follow the maximum PV open-circuit voltage, MPPT voltage range and maximum PV input current limits.
• Parallel system design should use matching inverter models, shared battery bank and proper AC/DC protection devices.