

LPR-F6.5K-EU1-48PS-PRO

LPR-F12K-EU1-48PS-PRO

6.5kw/12kw

- The LPR-F6.5K-EU1-48PS-PRO is a 6.5kw low-voltage hybrid inverter for residential and small backup systems. It supports solar, grid, generator and battery operation, with fast transfer, dual AC output, parallel expansion and IP54 protection for reliable daily power use in unstable-grid environments.
 - The LPR-F12K-EU1-48PS-PRO is a 12kw low-voltage hybrid inverter for larger homes and light commercial backup systems. It supports solar, grid, generator and battery operation, with dual MPPTs, up to 15kW PV input, 70A bypass mode, 5-inch LCD display, parallel expansion and IP54 protection for higher-load applications.
- ### Recommended Applications

LPR-F6.5K-EU1-48PS-PRO

 - ⚡ Residential Backup Power For Homes With Unstable Grid Supply
 - 🏪 Small Shops/Offices /Home Businesses Needing Solar Backup
 - 🏡 Rural Houses Using Solar/Battery/Grid /Generator Power

LPR-F12K-EU1-48PS-PRO

 - 🏠 Large residential backup systems with higher household power demand
 - 🏢 Light commercial backup for shops/clinics/small offices
 - ☀️ Solar storage systems requiring stronger load support/backup capacity



Features

IP54
Dust- and splash-resistant protection supports reliable use in garages, utility rooms and semi-outdoor areas, giving users more installation flexibility.

Parallel Ready
Parallel operation allows users to expand system capacity later when household loads, business demand or backup requirements increase.

Fast Backup
Less than 10ms transfer time helps keep essential appliances running when the grid fails, reducing interruption during outages.

Dual AC Output
Separates essential and non-essential loads, helping users prioritize backup power for lights, refrigerators, routers and other critical devices.

Flexible Power
Supports solar, grid, generator, battery and battery-free operation, making it practical for weak-grid, off-grid and backup scenarios.

Smart Monitoring
WiFi monitoring, LCD display and RS485/RS232/CAN interfaces make system status, settings and daily operation easier to manage.

LPR-F6.5K/F12K-EU1-48PS-PRO

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Model	LPR-F6.5K-EU1-48PS-PRO		LPR-F12K-EU1-48PS-PRO	
AC INPUT				
Rated Voltage(V.a.c.)	208/220/230/240 L1+N+L2+N+PE		220/230/240 L1+N+L2+N+PE	
Rated Frequency(Hz)	50/60			
Maximum Continuous Current (Bypass mode)(A.a.c.)	40		70	
INVERTER OUTPUT				
Rated Power(kW)	6.5		12	
Rated Voltage(V.a.c.)	208/220/230/240 L1+N+L2+N+PE		220/230/240 L1+N+L2+N+PE	
Power Factor	1			
Wave Form	Pure Sine Wave			
Switch Time(ms)	<10(Typical)			
Inverter Efficiency(Peak)	93.5%(Max)		94%@48V d.c.	
Current(Maximum Continuous)(A.a.c.)	22.7		52.5	
Maximum Output Overcurrent Protection	102%~120% 1min / 110%~130% 10s 130%~150% 3s / 150% 0.2s		>120% 10s	
BATTERY				
Battery Type	Lithium/Lead-acid			
Rated Battery Voltage(V.d.c.)	48			
Battery Voltage Range(V.d.c.)	42~56.4			
Max.Charge Current(A.d.c.)	120		160	
PV INPUT				
No of MPPT Tracker / Strings	1/1		2/2	
Max. PV Array Power(kW)	9		1 MPPT:9 2 MPPTs:15	
Max. DC Voltage(V.d.c.)	500			
MPPT Voltage Range(V.d.c.)	60-450			
Start-up Voltage(V.d.c.)	80			
MPPT Maximum Charge Current(A.d.c.)	120		160	
Max. Input Current(A.d.c.)	27		1 MPPT:27 2 MPPTs:22.5per	
Isc PV (Absolute Maximum)(A.d.c.)	30			
PROTECTION & FEATURE				
Parallel Function	YES			
Protection Degree	IP20,Indoor only			
Certifications	IEC62109-1/2,EN EC61006-6-1 EN EC61000-6-3,		CE(IEC62109-1) EN6100 NRS	
Other Protection	Over voltage Protection; Over load protection; Short circuit protection; Over temperature protection; Surge protection			
GENERAL PARAMETER				
Storage Temperature	-15°C~+60°C			
Operating Temperature	-10°C~+50°C			
Humidity	20%~95% (Non-condensing)			
Operating Altitude(m)	4000(>1000 Derating)			
Noise(dB)	<55		<60	
Warranty(year)	2			
Machine Dimensions(W*H*D)(mm)	334*413*116		420*500*130	
Machine Weight(N.W)(kg)	8.8		15.8	
Display				
Display	LCD Display			
Interface	RS485 / CAN / Dry Contact / WiFi (Optional)			

- 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.