

LPR-H10K/H12K-EU3-48PA

LPR-H15K-EU3-48PA

10kW/12kW/15kW

- **LPR-H10K-EU3-48PA** is a 10kW three-phase 48V hybrid inverter for residential and light commercial energy storage. It supports grid-tied and off-grid operation, 200% PV oversizing, dual MPPT, IP66 protection, 100% unbalanced output and high-current battery charging for reliable daily use.
- **LPR-H12K-EU3-48PA** is a 12kW three-phase low-voltage hybrid inverter designed for higher household loads and flexible solar storage systems. With 24kW PV Input, 250A battery charge/discharge current, IP66 protection and 100% unbalanced output, it is a balanced choice for mainstream three-phase homes.
- **LPR-H15K-EU3-48PA** is a 15kW three-phase 48V hybrid inverter for high-demand residential and villa energy storage applications. It delivers up to 30kW PV input, 280A battery charge/discharge current, 200% PV oversizing and strong backup performance for larger three-phase loads.

Recommended Applications

- LPR-H10K-EU3-48PA**
 - Three-Phase Homes/Small Villas/Backup Power/Self-Consumption Systems.
- LPR-H12K-EU3-48PA**
 - Medium-To-Large Homes/Higher PV Arrays /Stronger Battery Storage Needs
- LPR-H15K-EU3-48PA**
 - Large Villas/Heavy Household Loads/High-Power Three-Phase Backup Systems.

Features

- IP66 Protection**

IP66 dustproof and waterproof protection supports outdoor installation, helping the inverter operate reliably in demanding residential and light commercial environments.

- Hybrid Operation**

Supports both grid-tied and off-grid operation, enabling solar self-consumption, battery backup and flexible interaction with utility power.

- 100% Unbalanced Output**

Delivers 100% three-phase unbalanced output, making it suitable for homes where loads are unevenly distributed across different phases.

- Dual MPPT**

Dual MPPT trackers support flexible PV string design, improving energy harvest from rooftops with different orientations or module layouts.

- 200% PV Oversizing**

Supports up to 200% PV overload ratio, allowing larger solar arrays for stronger daytime generation and faster battery charging.

- Color Touchscreen**

The color touch screen provides clear local operation, system status display and easier commissioning or maintenance for installers and users.

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Model	LPR-H10K-EU3-48PA		LPR-H12K-EU3-48PA		LPR-H15K-EU3-48PA	
Battery Input Parameters						
Battery Type	Lithium or Lead-acid Battery					
Rated Battery Voltage (V)	48V					
Maximum Charging Voltage (V)	≤60V(configurable)					
Maximum Charging/Discharging Current (A)	210A	250A	280A			
PV Input Parameters						
Maximum DC Input Power (kW)	20kW	24kW	30kW			
Maximum DC Input Voltage (V)	1000V					
MPPT Voltage Range (V)	200~800V					
Start-up Voltage (V)	150V					
Maximum Input Current (A)	36A/18A			36A/20A		
Number of MPPT Trackers	2					
AC Output Parameters (Grid-tied)						
Maximum Apparent Output Power (VA)	11000VA	13200VA	16500VA			
Rated Output Voltage (V)	380/400V					
Rated Output Frequency (Hz)	50/60Hz					
Maximum Output Current (A)	16.7A	20A	24A			
Output Power Factor		1(0.8 leading ~ 0.8 lagging)				
AC Output Parameters (Off-grid)						
Rated Output Power (W)	10000W	12000W	15000W			
Peak Output Power (W)	>200%,15sec					
Rated Output Voltage (V)	380/400V					
Rated Output Frequency (Hz)	50/60Hz					
Rated Output Current (A)	16.7A	20A	22.8A			
Efficiency						
Max. Efficiency (PV)	98%					
Max. Efficiency (Battery)	94.5%					
European Efficiency	97.5%					
Protection						
PV Reverse Polarity Protection	Integrated					
PV Insulation Resistance Detection	Integrated					
Residual Current Detection	Integrated					
Output Overcurrent Protection	Integrated					
Output Short-circuit Protection	Integrated					
Output Overvoltage Protection	Integrated					
General Parameters						
Operating Temperature (°C)	-25~60°C(derating above 45°C)					
Storage Temperature (°C)	-30~65°C					
Relative Humidity	0~95%					
Operating Altitude (m)	≤4000m(derating above 2000m)					
Cooling Method	Intelligent Forced Air Cooling					
Noise (dB)	<55dB					
Weight (kg)	38kg			43kg		
Dimensions (W × H × D mm)	475*683*256mm			750*475*256mm		
IP Rating	IP66					
Topology	High-frequency Isolation (Battery Side)					
Safety / EMC Certification	IEC62109,IEC61000,IS16169 & IS16221(BIS)					
Grid Compliance	IEC61727,EN50549-1,VDE-4105,NRS-097-2-1,OVE-Richtlinie R25,UNE217001/2,Ordinace No.140					
Other Certifications	IEC61683,IEC62116,EN50530,IEC60068					

• 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.