LPESS | Beyond Sunlight. Proven Power

LPR-H6K-EU1-48PA
LPR-H8K-EU1-48PA

6kW/8kW

- **LPR-H6K-EU1-48PA** is the more compact 6kW option for standard residential hybrid storage projects. It is suitable where the customer needs 48V battery compatibility, IP66 outdoor installation, dual MPPT, standard WiFi monitoring and strong backup surge capability, while keeping inverter size and cost more controlled than the 8kW model.
- **LPR-H8K-EU1-48PA** is the higher-power model for residential projects that need stronger PV input, stronger battery current and higher backup load capacity. Compared with the 6K model, it is better suited for larger homes, heavier backup loads and customers who want more headroom for battery charging and PV expansion.

Recommended Applications

LPR-H6K-EU1-48PA
- Standard Residential Storage
- Cost-Sensitive Projects

LPR-H8K-EU1-48PA
- Larger Home Loads
- Higher PV Input
- Stronger Battery Current

Features

Hybrid application
Supports solar self-consumption, battery storage and backup power in one hybrid inverter platform.

MPPT
Supports flexible rooftop string design and improves energy harvest under different roof orientations.

Backup capability
Strong short-time surge capability for starting inductive and high-inrush household loads.

User interface
Clear on-site operating display for system status, settings and troubleshooting.

PV design
Allows higher PV array sizing for better daytime generation and battery charging potential.

LPR-H6K/8K-EU1-48PA

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Model	LPR-H6K-EU1-48PA	LPR-H8K-EU1-48PA
Battery Input Parameters		
Battery Type	Lithium or Lead-acid Battery	
Battery Voltage Range (V)	40~60	
Rated Battery Voltage (V)	48V	
Max. Charging Voltage (V)	≤60(configurable)	
Max. Charging Current (A)	135	190A
PV Input Parameters		
Max. DC Input Power (W)	12000W	16000W
Max. DC Input Voltage (V)	500V	
Operating Voltage Range / MPPT Voltage Range (V)	150~450V	
Start-up Voltage (V)	125V	
Max. Input Current (A)	20/20A	30A/18A
Number of MPPT Trackers	2/1+1	2
AC Input / Output Parameters		
Peak Power (Off-grid) (W)	>200%,15sec	
Rated AC Input/Output Current (A)	27.3/26.1	
Max. AC Input/Output Current (A)	30/28.7	
Rated AC Input/Output Voltage Range (V)	220V/230V/85Un-1.1Un	
Grid Connection Type	>200%,15sec	
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz	
Power Factor Adjustment Range	1(0.8 leading ~ 0.8 lagging)	
Total Harmonic Distortion (THDI)	<3%(of nominal power)	
DC Injection Current	<0.5%In	
AC Output Parameters (Grid-tied)		
Rated Output Voltage (V)	220/230V	
Rated Output Frequency (Hz)	50/60Hz	
Output Power Factor	1(0.8 leading ~ 0.8 lagging)	
AC Output Parameters (Off-grid)		
Rated Output Power (W)	6000	8000
Peak Output Power (W)	>200%,15sec	
Rated Output Voltage (V)	220/230V	
Rated Output Frequency (Hz)	50/60Hz	
Rated Output Current (A)	40A	
Efficiency		
Max. Efficiency (PV)	97.6%	98%
Max. Efficiency (Battery)	94.5%	
European Efficiency	97%	97.5%
MPPT Tracking Efficiency	>99%	
Interfaces		
Communication Interfaces	RS485/CAN	
Monitoring modes	GPRS / WiFi / Bluetooth / 4G / LAN (optional)	
General Parameters		
Operating Temperature (°C)	-40°C ~+60°C (derating above 45°C)	
Storage Temperature (°C)	-30~65°C	
Relative Humidity	0~100%	0~95%
Operating Altitude (m)	≤4000m (derating above 2000m)	≤4000(derating above 2000m)
Cooling Method	Intelligent Forced Air Cooling	
Noise (dB)	<45dB	<55dB
Weight (kg)	13kg	21.5kg
Dimensions (W × H × D mm)	338*480*205mm	198*427*554mm
IP Rating	IP66	
Topology	High-frequency Isolation (Battery Side)	
Safety / EMC Certification	IEC62109, IEC61000, IS1619 & IS16221(BIS)	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.

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