

LPR-H30K-EU3-HVPS

LPR-H70K-EU3-HVPS

30kW/60kW

● The LPR-H30K-EU3-HVPS is a 30kW European three-phase high-voltage hybrid inverter for commercial solar storage and larger building backup systems. It supports 380/400V output, 135-850V battery voltage range, 4 MPPTs, 60kW PV input, IP66 outdoor installation, dual battery inputs and parallel expansion.

The LPR-H60K-EU3-HVPS is a 60kW European three-phase high-voltage hybrid inverter for higher-capacity C&I solar storage systems. It supports 100kW PV input, 4 MPPTs, dual high-current battery inputs, IP66 outdoor use, AC coupling and scalable parallel operation for larger commercial energy systems.

Recommended Applications

LPR-H30K-SA3-HVPS

For Commercial Buildings/Workshops /Small Factories Needing Three-Phase Hybrid Storage With Outdoor Installation

LPR-H70K-NA3-HVPS

For Larger C&I Sites/Industrial Loads/Solar Retrofit Projects Needing Higher PV/Backup Capacity

Features

IP66 Outdoor

IP66 protection supports outdoor installation, helping protect the inverter from rain, dust and exposed commercial operating environments.

Three-Phase Hybrid

Supports 380/400V three-phase grid-connected operation, battery backup and off-grid output for European commercial solar storage projects.

High-Voltage Battery

A 135-850V battery voltage range supports high-voltage storage system design, improving flexibility for commercial battery configurations.

4 MPPT Solar

Four MPPT trackers improve PV array flexibility across multiple roof orientations, helping commercial sites capture more usable solar energy.

Dual Battery Input

Dual independent battery inputs support up to 100A charge and discharge per port, helping improve storage capacity and system flexibility.

Parallel Expansion

Supports up to 8 units in parallel and AC coupling, making it easier to expand capacity or retrofit existing PV systems.

LPR-H30K-SA3-HVPS / LPR-H70K-NA3-HVPS

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Parameter	LPR-H30K-EU3-HVPS		LPR-H70K-EU3-HVPS	
INVERTER INPUT / OUTPUT (GRID)				
Rated Power (kW)	30 kW		70 kW	
Rated Voltage (V a.c.)	380 / 400 V a.c., 3W+N+PE			
Rated Frequency (Hz)	50 / 60 Hz			
Power Factor Range	0.8 leading ~ 0.8 lagging			
Max. Continuous Current (Input / Output) (A a.c.)	91.2 A / 45.6 A		182.4 A / 91.2 A	
Max. Output Overcurrent Protection (A a.c.)	68.4 A / 65 A		136.7 A / 129.9 A	
BATTERY				
Battery Type	Lithium / Lead-acid			
Battery Voltage Range (V d.c.)	135 ~ 850 V d.c.			
Rated Battery Voltage (V d.c.)	150 V d.c.		300 V d.c.	
Max. Charge Current (A d.c.)	2*100 A			
Max. Discharge Current (A d.c.)	2*100 A			
Reverse Connect Protection	Yes			
PV INPUT				
No. of MPPT Tracker / Strings	4 / 2+2+2+2			
Max. PV Input Power (kW)	60 kW		100 kW	
Max. DC Voltage (V d.c.)	1000 V d.c.			
MPPT Voltage Range (V d.c.)	150 ~ 850 V d.c.			
Start-up Voltage (V d.c.)	200 V d.c.			
Max. Input Current / String (A d.c.)	8*20 A			
Isc PV (Absolute Maximum) / String (A d.c.)	8*30 A			
AC OUTPUT (EPS) / GENERATOR				
EPS Rated Output Voltage (V a.c.)	380 / 400 V a.c., 3W+N+PE			
EPS Rated Output Frequency (Hz)	50 / 60 Hz			
EPS Rated Output Active Power (kW)	30 kW		70 kW	
EPS Rated Output Apparent Power (kVA)	30 kVA		70 kVA	
EPS Rated Output Current (A a.c.)	45.6 A / 43.3 A		91.2 A / 86.6 A	
Overload Capacity (Off Grid)	110% 30s / 120% 10s / 150% 0.2s			
EFFICIENCY				
MPPT Efficiency	99.90%			
Euro-efficiency	97.50%			
Max. Efficiency	98.50%			
PROTECTION & FEATURE				
Insulation Monitoring	Yes			
Residual Current Monitoring	Yes			
Parallel Function	Yes, up to 8 pcs			
Protection Degree	IP66			
Certifications	IEC 62109-1/2, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, EN 50549-1&-10, NRS 097-2-1			
Other Protection	Ground fault current monitoring, earth fault detection, residual current detection			
GENERAL PARAMETER				
Storage Temperature	-25 °C ~ +60 °C			
Operating Temperature	-25 °C ~ +60 °C (linearly derating to 60% when exceeding +45 °C ~ +60 °C)			
Humidity	0 ~ 100% (Non-condensing)			
Max. Operating Altitude (m)	4000 m			
Noise (dB)	<65 dB			
Machine Dimensions (W*H*D) (mm)	544*880*278 mm			
Machine Weight / N.W. (kg)	88 kg			
DISPLAY & COMMUNICATION				
Display	App + LED / LCD			
Interface	RS485 / WiFi / CAN / DRM (Optional: Bluetooth / LAN / Meter)			
Note	The AC voltage and frequency range may vary according to the grid standards of each country.			

· 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.