

LPR-H30K-SA3-HVPS

LPR-H70K-NA3-HVPS

30kW/70kW

- The LPR-H30K-SA3-HVPS is a 30kW high-voltage three-phase hybrid inverter for Latin American C&I solar storage systems. It supports 127/220V grids, 4 MPPTs, dual HV battery inputs, grid and generator input, IP66 outdoor installation, parallel expansion and fast on/off-grid switching.

The LPR-H70K-NA3-HVPS is a 70kW high-voltage three-phase hybrid inverter for North American commercial solar storage projects. It supports 277/480V three-phase grids, 140kW input / 70kW output, 100kW PV input, dual HV battery inputs, IP66 outdoor installation and up to 8 units in parallel.

Recommended Applications

LPR-H30K-SA3-HVPS

- For Latin American Shops/Farms/Hotels And Factories Needing 127/220V Three-Phase Solar Storage With Generator Backup

LPR-H70K-NA3-HVPS

- For North American Commercial Buildings, Farms And Industrial Sites Requiring 277/480V Three-Phase Storage And Backup Power.



Features

IP66 Outdoor

IP66 protection supports outdoor installation in exposed commercial sites, helping protect the inverter from dust, rain and demanding daily operating conditions.



Regional Grid Match

Supports market-specific three-phase grid voltages, including 127/220V for Latin America and 277/480V for North American commercial power systems.



Three-Phase Hybrid

Combines grid-connected solar, battery storage, backup output and generator input, giving commercial users more flexible energy control.



4 MPPT Solar

Four MPPTs with 2+2+2+2 string design improve PV layout flexibility for large rooftops, mixed orientations and C&I solar expansion.



Dual HV Battery

Dual high-voltage battery inputs support up to 2*100A charge and discharge current, making the system suitable for larger battery banks.



Parallel Expansion

Parallel operation supports up to 8 units, allowing projects to scale power capacity as commercial load or backup requirements increase.

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

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Parameter	LPR-H30K-SA3-HVPS	LPR-H70K-NA3-HVPS
INVERTER INPUT / OUTPUT (GRID)		
Rated Power (Input / Output) (kW)	60 / 30	140 / 70
Rated Voltage (V a.c.)	127 / 220, 3W+N+PE	277 / 480, 3W+N+PE
Rated Frequency (Hz)	50 / 60	
Power Factor Range	0.8 leading ~ 0.8 lagging	
Switch Time (ms)	<20	
Max. Continuous Current (Input / Output) (A a.c.)	157.4 / 78.7	168.6 / 84.3
Max. Output Overcurrent Protection (A a.c.)	118.1	126.5
BATTERY		
Battery Type	Lithium / Lead-acid	
Battery Voltage Range (V d.c.)	150 ~ 700	300 ~ 800
Rated Battery Voltage (V d.c.)	150	300
Max. Charge Current (A d.c.)	2*100	
Max. Discharge Current (A d.c.)	2*100	
Reverse Connect Protection	Yes	
PV INPUT		
No. of MPPT Tracker / Strings	4 / 2+2+2+2	
Max. PV Input Power (kW)	60	100
Max. DC Voltage (V d.c.)	1000	
MPPT Voltage Range (V d.c.)	150 ~ 950	150 ~ 850
Start-up Voltage (V d.c.)	200	
Max. Input Current / string (A d.c.)	8*20	
Isc PV (Absolute Maximum) / string (A d.c.)	8*30	
AC OUTPUT (EPS) / GENERATOR		
EPS Rated Output Voltage (V a.c.)	127 / 220, 3W+N+PE	277 / 480, 3W+N+PE
EPS Rated Output Frequency (Hz)	50 / 60	
EPS Rated Output Active Power (kW)	30	70
EPS Rated Output Apparent Power (kVA)	30	70
EPS Rated Output Current (A a.c.)	78.7	84.3
Overload Capacity (Off Grid)	110% 30s / 120% 10s / 150% 0.2s	
EFFICIENCY		
MPPT Efficiency	99.90%	
Euro-efficiency	97.00%	
Max. Efficiency	98.00%	
PROTECTION & FEATURE		
Insulation Monitoring	Yes	
Residual Current Monitoring	Yes	
Parallel Function	Yes, up to 8 units	
Protection Degree	IP66	
Certifications	UL1741, FCC Part 15B, UL1547, UL1998, UL1699B, HECO SRD 2.0, CEC efficiency	
Other Protection	Ground fault current monitoring, earth fault detection, residual current (RCD) detection	
GENERAL PARAMETER		
Storage Temperature	-25°C ~ +60°C	
Operating Temperature	-25°C ~ +60°C (>+45°C derating)	
Humidity	0% ~ 95% (Non-condensing)	
Max. Operating Altitude (m)	4000 (>2000 derating)	
Noise (dB)	<65	<75
Warranty (year)	5	
Machine Dimensions (W*H*D) (mm)	544*880*278	544*953*278
Machine Weight / N.W. (kg)	88	90
DISPLAY & COMMUNICATION		
Display	App + LED / LCD (-S version)	
Interface	RS485 / WiFi / CAN / DRM / Bluetooth (Optional: LAN / Meter)	
Note	Some specifications vary by regional grid standard and are shown in the applicable model column.	

- 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.