

LPR-H12K-NAS-48PS

LPR-H15K-NAS-48PS

12kW/15kW

● The LPR-H12K-NAS-48PS is a 12kW low-voltage hybrid inverter for North American residential and small commercial solar storage systems. It supports 120/240V split phase and 208V 2/3 phase output, 48V batteries, three MPPTs, generator input, smart load control, IP65 outdoor installation and parallel expansion.

The LPR-H15K-NAS-48PS is a 15kW low-voltage hybrid inverter for larger homes and light commercial backup systems. It supports 120/240V split phase and 208V 2/3 phase output, 48V batteries, three MPPTs and IP65 outdoor installation, with 15kW output, 22.5kW PV array capacity and 275A max charge/discharge current.

Recommended Applications

LPR-H12K-NAS-48PS

🏠 Suitable For Homes/Small Shops And Backup Power Projects That Need Split-Phase Output/Solar Storage/Generator Input And Essential-Load Protection During Outages

LPR-H15K-NAS-48PS

🏢 Designed For Larger Homes/Farms/Workshops And Light Commercial Sites With Higher Daytime Loads/Larger PV Arrays And Stronger Battery Charging Requirements

Features

⚡ North America AC

Supports 120/240V split phase and 208V 2/3 phase output, making it practical for common North American residential and light commercial electrical systems.

🏠 IP65 Outdoor

IP65 protection supports outdoor wall-mounted installation, helping protect the inverter from dust, rain and exposed site conditions in daily use.

🔌 Fast Backup

Less than 10ms switching helps keep priority loads running during outages, reducing interruption for refrigerators, routers, lighting and other essential circuits.

☀️ Triple MPPT Solar

Three MPPTs with 2+2+2 string design improve PV layout flexibility for rooftops with different orientations, shading conditions or panel groups.

⚙️ Parallel Expansion

Supports up to 6 units in parallel, allowing the system to scale for larger homes, farms or business loads without changing the entire inverter platform.

⚡️ Programmable AC Ports

Grid, generator and smart load connections support flexible power routing, helping users prioritize backup loads and manage energy use more effectively.

LPR-H12K/15K-NAS-48PS

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Parameter	LPR-H12K-NAS-48PS	LPR-H15K-NAS-48PS
INVERTER INPUT / OUTPUT (GRID)		
Rated Power (kW)	12	15
Rated Voltage (V a.c.)	120 / 240 (Split Phase), 208 (2/3 Phase)	
Rated Frequency (Hz)	60	
Power Factor Range	0.8 leading ~ 0.8 lagging	
Switch Time (ms)	<10	
Max. Input Current (A a.c.)	200	
Max. Output Current (A a.c.)	50	62.5
Max. Output Overcurrent Protection	250 V a.c. / 250 A a.c.	
GEN Max. Input Current (A a.c.)	80	
BATTERY		
Battery Type	Lithium / Lead-acid	
Battery Voltage Range (V d.c.)	40 ~ 60	
Rated Battery Voltage (V d.c.)	51.2	
Max. Charge Current (A d.c.)	250	275
Max. Discharge Current (A d.c.)	250	275
Reverse Connect Protection	Yes	
PV INPUT		
No. of MPPT Tracker / Strings	3 / 2+2+2	
Max. PV Array Power (kW)	18	22.5
Max. DC Voltage (V d.c.)	550	
MPPT Voltage Range (V d.c.)	100 ~ 500	
Start-up Voltage (V d.c.)	120	
Max. Input Current (A d.c.)	26+26+26	
Isc PV Absolute Maximum (A d.c.)	39	
AC OUTPUT (EPS)		
EPS Rated Output Voltage (V a.c.)	120 / 240 (Split Phase), 208 (2/3 Phase)	
EPS Rated Output Frequency (Hz)	60	
EPS Rated Output Active Power (kW)	12	15
EPS Rated Output Apparent Power (kVA)	12	15
EPS Rated Output Current (A a.c.)	50	62.5
Overload Capacity (Off Grid)	200% 10s	
Smart Load Rated Output Power (kW)	12	15
EFFICIENCY		
MPPT Efficiency	99.50%	
California Efficiency	96.50%	
Max. Efficiency	97.50%	
PROTECTION & FEATURE		
Insulation Monitoring	Yes	
Residual Current Monitoring	Yes	
Parallel Function	Yes	
Protection Degree	IP65	
Certifications	UL1741, FCC Part 15B, UL1547, UL1998, UL1699B, HECO SRD 2.0, CEC efficiency	
Other Protection	Overload, over temperature, short circuit, anti-islanding	
GENERAL PARAMETER		
Storage Temperature	-25°C ~ +60°C (-13°F ~ +140°F)	
Operating Temperature	-25°C ~ +60°C (-13°F ~ +140°F), >+45°C (+113°F) derating to 60%	
Humidity	0 ~ 95% (Non-condensing)	
Operating Altitude (m)	4000 (>2000 derating)	
Noise (dB)	<45	
Warranty (year)	5	
Machine Dimensions (W*H*D) (mm)	522*826*265.5	
Machine Weight / N.W. (kg)	50	
DISPLAY & COMMUNICATION		
Display	App + LED / LCD (-S version)	
Interface	RS485 / WiFi / CAN (Optional: Bluetooth / LAN / 4G / Meter)	
Note	Some specifications vary by power rating 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.