

ASSORTED HYBRID INVERTER CHARGER KITS ARE ALSO AVAILABLE



At AIMS Power, we're passionate about designing and developing renewable energy solutions.

We offer the largest DC to AC inverter selection, solar panels, deep-cycle batteries and solar charge controllers. This includes certified products to UL standards, cables, fuse kits and more to complete your system.

What sets us apart is our unwavering commitment to our customers. We provide products of unparalleled quality and top-notch customer service, always putting our customers' needs first.

If you're looking for the perfect inverter, back up or off grid solution, for your needs, don't hesitate to reach out to us today!

 www.aimscorp.net
 sales@aimscorp.net
 (775) 359-6703
 9550 Gateway Drive
Reno, NV 89521

LOCATED IN THE USA



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HYBRID INVERTER CHARGER DOES IT ALL

GRID TIE | OFF GRID | NET METERING | LOAD SHARE | GENERATOR

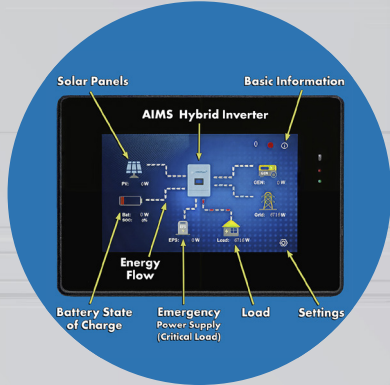


AIMS Power offers customized solar and battery kits for most applications



HYBRID INVERTER CHARGER SPECS AND FEATURES

The AIMS Power Hybrid Inverter charger is designed to provide grid tie and battery back up solar power management in one product. Its comprehensive design eliminates the need for extra equipment, providing an efficient solution for users interested in grid tie, battery backup, net metering, and load sharing all in one product. Loaded with safety features, listed to UL, CSA and CEC standards.



LISTED TO UL

- Wide PV input voltage range
- Load sharing
- Isolated emergency backup output for defined loads
- Configurable charge and load times based on user's preference
- Loaded with safety features
- Large 5-inch color LCD
- RS485, CAN, Wi-Fi, 4G
- Extremely efficient
- FCC Part 15 Class B

Part Numbers
PIHY4600
PIHY9600

PV INPUT			PIHY4600 4600 WATT (4.6kW)	PIHY9600 9600 WATT (9.6kW)
Max Input Power (kW)			6.9	15
Max PV Voltage (V)			660	
MPPT Range (V)			80-550	
Nominal Voltage			360	
Startup Voltage			100	
Max Input Current (A)		15.5 x 2		15.5 x 3
Max Short Current (A)		26 x 2		26 x 3
BATTERY PORT				
Max Charge/Discharge Power (kW)		6.9 6.9		11.5 10.3
Max Charge/Discharge Current (A)		50		
Battery Voltage (V)		230		
Battery Voltage Range (V)		80-495		
Battery Type		Lithium Lead		
AC GRID				
Max Continuous Power (kVA)		4.6		9.6
Max Continuous Current (A)		19.5 22.5		40 46.5
Nominal Grid Voltage (V)		211 to 264 @ 240	183 to 229 @ 208 (not 3 phase, split phase)	
Nominal Grid Frequency (Hz)		60		
Output Power Factor		.99 adjustable		
Current THD (%)		<3		
AC BACK-UP & GENERATOR				
Max Continuous Power (kVA)		4.6		9.6
Max Continuous Current (A)		19.5 22.5		40 46.5
Max Peak Current (A)(10 min)		28.8 33.2		47.9 49.5
Max Peak Power (kVA)(10 min)		6.9 6.9		11.5 10.3
Nominal AC Voltage L-L (V)		240 208 (not 3 phase)		
Nominal AC Voltage L-N (V)		120 120		
Nominal AC Frequency (Hz)		60		
Switching Time (ms)		<10		
Voltage THD (%)		<3		
EFFICIENCY				
CEC Efficiency (%)		97		
Max Efficiency (%)		97.6		
PV to Battery Efficiency (%)		98.1		
Battery Between AC Efficiency (%)		96.8		
PROTECTION				
PV Reverse Polarity Protection		YES		
Battery Reverse Polarity Protection		YES		
Over Current/Voltage Protection		YES		
Anti-Islanding Protection		YES		
AC Short Circuit Protection		YES		
Residual Current Detection		YES		
Ground Fault Monitoring		YES		
Insulation Resister Detection		YES		
PV Arc Detection		YES		
Rapid Shut Down		YES		
Enclosure Protect Level		IP65 NEMA4X		
GENERAL DATA				
Cooling	Natural Convection	Thermal Fan		
Relative Humidity		0-100%		
Operating Temperature Range		-25 to 60C -77 to 140F		
Operating Altitude		< 4000 m <13123 ft without derating		
Noise Emission (dB)		<25		<40
Standby Consumption (W)		<10		
Mounting		Wall Bracket		
Communication with RSD		SUNSPEC		
Display & Communication Interfaces		Full Color LCD, RS485, CAN, Wi-Fi		
Certification & Approvals		UL 1741 SA CSA 2202 No. 107-01 UL 1998 Rules21 HECO Rule 14 IP65 CEC		
EMC		FCC Part 15 Class B		

LITHIUM BATTERY CABINET FOR AIMS HYBRID INVERTER CHARGERS



Master LFP230V96A-M
Slave LFP230V96A-S

FEATURES

- Pre-programmed for hybrid inverter
- Pre-wired for easy installation and set up
- Superior BMS for optimal performance
- Expandable - max 3 per inverter
- Cell balancing
- More efficient during high watt usage
- Natural cooling
- Eye bolts for lifting included

SPECIFICATIONS

- Voltage 230.4V
- Amp hours 96
- kWh 22.1
- Max charge/discharge current 50amps
- Cycle life >3500
- Cut off discharge voltage 180V
- Max charge voltage 262.8
- Efficiency >97%
- IP grade IP54
- Weight 650 lb
- Dimensions (inches)
68.75H x 33.75D x 24.75W

STACKABLE

Up to three battery cabinets can be used with one Hybrid Inverter.