

Inverters

HPS Series

The Magellan Power HPS Series Industrial Inverter is versatile, highly configurable equipment which can provide clean, stable AC power from a DC source. Featuring continuous full load operation, high surge load capabilities and inbuilt data and fault logging, it can be configured to operate in three different modes:

Inverter Mode

Provides constant voltage, constant frequency AC power from a battery.

Charger Mode

Charges a battery from the AC Grid or generator.

UPS Mode

Charges the battery when the grid is present. When the grid is not present the inverter automatically supplies power to the load.

Housed within a marine grade, IP55 rated, aluminum cabinet, the HPS Series is suitable for outdoor duty under harsh conditions and extreme temperatures. With system options that include manual inverter by-pass and generator input, and cabinet options that include both rack-mounting and floor-standing alternatives, the Magellan Power HPS Series Industrial Inverter can be tailored to your needs.



Model	HPS060-110-000-1	HPS100-120-000-1	HPS150-120-000-1
Nominal Capacity	6kVA	10kVA	15kVA
Nominal Battery Voltage	110V DC	110V DC	120V DC
Battery Voltage Range	94 to 134V DC	94 to 143V DC	105 to 160V DC
Continuous Inverter Power Rating	6kVA	10kVA	15kVA
Maximum Battery Charging Current	46A	70A	105A
Stand-By Power	<200W	<250W	<350W



Technical Specifications

Item	Specification
Surge Rating (@ 40°C)	125% for 10 mins 150% for 1 min 200% for 5 sec
Nominal AC Output Voltage	240V AC
Mains Input Voltage Range	220 to 260V AC
Mains Input Frequency Range	45 to 55Hz
Inverter/Charger Efficiency	> 92% at nominal voltage and power
Inverter Waveform	Sinusoidal, THD < 3%
Output Voltage Regulation	± 1%
Mains Bypass Switch	Automatic
Grid Fail Change-Over Time	5 to 10 msec
Operating Temperature	- 20 to 50°
User Interface	128x64 Graphical Blue LCD with Backlight Membrane Keypad
Inverter / Charger Protections	Inverter Over Voltage Monitoring, Inverter Load Monitoring, Inverter Current Limit Monitoring, Inverter Over Temperature Monitoring, Mains Under / Over Voltage Monitoring, Mains Under / Over Frequency Monitoring, Mains Relay Fault, Sensing Fault, Temperature Controlled Cooling Fan, Automatic Timed Restart on Fail
Battery Type Supported	Flooded Lead Acid Tubular, VRLA, NiCad Charging characteristics tailored to suit the battery type
Battery Protections	Battery Over Temperature Monitoring, Battery Voltage-Temperature Compensation, Battery Under Voltage Monitoring, Battery Over Voltage Monitoring, Optional Battery Health Impedance Monitoring, Optional Battery Capacity Testing
Monitored System Parameters	Battery Voltage, Current and Temperature, Inverter Voltage, Current and Temperature, Mains Voltage, Current and Frequency, Ambient Temperature, Transformer Temperature
Communication Ports	Isolated RS232 D89 Female Connector, Isolate RS485 Screw Terminal Connector, Ethernet 10-BASE-T RJ45 Connector
Communication Protocols	Modbus RTU (RS232/RS485), Modbus TCP (Ethernet), Distributed Network Protocol3 (Ethernet), Inbuilt Website (Ethernet), Optional GSM access
Inbuilt Diagnostic System	Periodic Data Logging into Non-Volatile Memory (3 days of logged data at 1 minute intervals, 1 year of logged data at 2 hour intervals), Battery Voltage, Current and Temperature, Mains Voltage and Frequency, Inverter/Charger Voltage and Temperature, Inverter/Charger Power, Fault Event Recorder, Data accessible via Communication Ports
Enclosure	Rack Mounting, Floor Standing or Outdoor
Cooling	Forced air with Temperature Controlled Cooling Fan

Note: Other DC and AC voltage and power ratings are available.

