

Inverters

LPS Series

The Magellan Power LPS Series ("Champion") Inverter is a state of the art bi-directional inverter that produces perfect sine-wave output from a DC source. Connected batteries can be charged at the inverter's maximum rating which, for example, would mean a 48V battery would be charged at up to 40 amps, eliminating the need for a separate battery charger, and also allowing large batteries in the UPS application.

Intelligent, reliable, with high charging capabilities and perfect sine-wave output, the Magellan Power LPS Series ("Champion") Inverter is suitable for use as a combined UPS, battery charger and inverter in substations, power stations, mines, marine applications, emergency services and renewable energy.

Product Features
Perfect sine-wave output
High reliability
High battery charging capability
High efficiency
Operation up to 50°C
Multiple inverter and battery protections
Fast Installation
Compact and Lightweight
Data Logging



Model	LPS 020-048-000-1
Nominal Capacity	2kVA
Nominal Battery Voltage	48V DC
Battery Voltage Range	42 to 63V DC
Continuous Inverter Power Rating	2kVA
Maximum Battery Charging Current	37A
Stand-By Power	<55W



Technical Specifications

Item	Specification
Power Rating	2000W
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%
Grid Fail Change-Over Time	5 to 10 msec
Operating Temperature	- 20 to 50°C
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, 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
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
Communication Protocols	Modbus RTU (RS232), Optional GSM and satellite 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	Floor Standing
Cooling	Forced air with Temperature Controlled Cooling Fan
Dimensions (mm)	500H x 380W x 240D

