



Industrial Inverters

Designed for high reliability and featuring microprocessor and DSP controls, the Magellan Power industrial single-phase and three-phase Inverters are rated for continuous operation at full load. With full system remote diagnostics, monitoring and reporting via internet, along with integrated data and fault logging and settable software parameters.



Features

- Designed for harsh environments. IGBT Sinewave output.
- Advanced DSP controls.
- High efficiency.
- Isolated RS232 or RS485, Ethernet.
- Modbus RTU, Modbus TCP, SNMP, Internal Webpage, DNP3 for inverter based products only.
- Access facility software.

Specifications

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATION

Operating Temperature	0 - 50°C (internal components industrially rated)
Maximum Humidity	95%, non-condensing
Cooling	Forced air with temperature controlled cooling fan
Enclosure	IP42 (Indoors)
Finish	Epoxy powder coated

PROTECTIONS

Circuit Breakers	DC Input; Load Output
Fault Monitoring	Inverter Over Voltage, Inverter Over Load, Inverter Current Limit, Inverter Over Temperature, Sensing Fault
DC Protections	DC Under Voltage, DC Over Voltage

INDICATIONS

User Interface	128x64 Graphical Blue LCD with White LED Backlight; Membrane Keypad; Green Mains OK LED; Red Fault LED; Yellow Buzzer Mute LED
Monitored System Parameters	Battery Voltage, Current and Temperature; Inverter Voltage, Current and Temperature, Ambient

COMMUNICATION

Communication Ports	Isolated RS232 or USB Connector; Isolated RS485 Screw Terminal Connector; Ethernet 10-BASE-T RJ45 Connector
Communication Protocols	Modbus RTU (RS232/RS485); Modbus TCP (Ethernet); Distributed Network Protocol3 (Ethernet); In built Website (Ethernet); SNMP
Monitoring and Diagnostic Download Software	"Access Facility"; PC Software
Optional Alarm Relay Outputs	Inverter Fail Alarm; Battery Low Alarm; Common Alarm

INVERTER SPECIFICATIONS

Nominal Capacity	50kVA
Overload Capacity	150% for 30 seconds; >100% for 60 seconds
Nominal DC Voltage	220VDC
Nominal Output AC	240V, 50Hz single phase
DC Voltage Range	Nominal $\pm 12.5\%$
Output Frequency	$\pm 2\%$ Input and load variation
Efficiency	>90% At rated load, nominal input voltage
Switching device	Trench IGBT
Voltage THD	<3% with resistive load