



INDUSTRIAL BI-DIRECTIONAL UPS

Utilising single power conversion topology, Magellan Australian designed and manufactured bi-directional UPS systems have been specifically designed to give highest reliability and longevity (in excess of 25 years) in the harshest of Australian environments.

The UPS features advanced communication and data logging, plus long back-up capability.

Available in single and three phase input/output up to 100kVA, Magellan Power's customised UPS systems are flexible, safe (low battery voltages), highly reliable, and are a perfect choice for critical industrial applications.



Features

- High reliability
- 25 year design life
- Advanced communication options
- Available in single and three phase input/output up to 100kVA
- Customised to client specifications
- Perfect for critical applications in tough environments
- Extended back-up time
- IGBT based design
- Galvanic battery and output isolation
- Isolated RS232 or RS485, Ethernet, Modbus RTU, Modbus TCP, SNMP, Internal Webpage, DNP3 for inverter-based products only
- Access facility software



Technical Specification



Rated Power	5kVA - 100kVA	
Configuration	Single conversion - bidirectional	
AC Input	Voltage	230/415 ± 10%
	Frequency	50Hz ± 5Hz
	Phase	Single Phase/ Three Phase
AC Output	Nominal Output Voltage	230V/415V
	Voltage Regulation	±1%
	Frequency	50Hz ± 0.1Hz
	Waveform	Sinusoidal
	THD	<3%
	Power Factor	Unity in grid mode
	Crest Factor	3:1
Overload without bypass	30min@110%, 10min@125%, 1min@150%, 5sec@250% short circuit	
Voltage Transient (Step Load)	For 100% step load	
Transfer Time	Synchronised transfer 5-10mS (suitable for nearly all industrial applications)	
DC Voltage Range	48VDC - 240VDC	
Type of Batteries	VRLA, NiCad, Lithium	
Charging Capacity	Up to full rating of UPS	
Isolation	Galvanically isolated battery and output	
Battery Protections and Monitoring	Battery over temperature monitoring, battery voltage - temperature compensation, battery under voltage monitoring, battery over voltage monitoring, optional battery impedance and capacity test facility	
Efficiency	95%	
Standards	AS5603, AS62040, AS3000, AS3100, AS61000, AS1319, AS4029.2, AS2676.2	
Communications Interface	Modbus RTU (RS232/RS485), Modbus TCP (Ethernet), distributed network protocol 3 (ethernet), inbuilt website (Ethernet) SNMP, optional GSM access	
Ambient Temperature	-10°C to 50°C	
Monitored System Parameters	Battery voltage, current and temperature, inverter voltage, mains voltage, current and frequency	
In-built Diagnostic System	Periodic data logging into non- volatile memory (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	

