



PORTABLE EMERGENCY DC UPS

Magellan's emergency DC UPS is a complete solution for avoiding any loss of DC power in substations.

This unit is light, compact and portable. It combines an advanced, integrated, reliable battery charging system and light weight, high efficiency Lithium batteries, along with an integrated intelligent battery monitoring system (BMS). The charger operates from 240VAC, providing dual uninterruptible 110VDC, 24VDC or 48VDC power.

The unit is to be kept connected to mains at all times when it is not being used to make sure that the batteries are charged and are available at full capacity when needed. This portable DC UPS then allows technicians to restore the site DC power without stress.



Features

- Compact and portable design
- Complete solution for avoiding DC power loss
- Uses light-weight, high efficiency lithium batteries with removable modules
- Easy to deploy/ portable
- Provides dual DC output power, 110V/20A and (24V/25A or 48V/25A)
- Allows technicians to restore site DC power without stress



Technical Specification

INPUT

Float Voltage	115.2V DC for 110V DC model, 50.4V DC for 48V DC model
Nominal Power	2200W for 110VDC model, 2400W for 48VDC model
Input Supply	Single Phase 240V± 10% 50Hz ±5% Via 3 Pin Plug

OUTPUT

Output Voltage Options - Via Anderson Plugs	24V	48V	110V
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SYSTEM

Noise and Ripple	< 2% specified at full load without battery connected
Static Voltage Regulation	± 1% for 0-100% load variation, ± 10% AC input voltage variation and 5% AC input frequency variation
Dynamic Voltage	5% for load variation of 10% to 100% or 100% to 10%
Current Regulation	± 1%
Protection	Input Circuit Breaker, Charger Current Limit, AC Surge Protection, Short Circuit Protection Output Circuit Breaker per Voltage Output, Input Shunt Trip, Battery Circuit Breakers
Power Factor	0.99 to 0.995 measured at full load and 220V input
Metering	Charger Voltage, Charger Current, Load Voltage, Load Current, Battery Charge/Discharge Current & Voltage, Cell Voltage, Battery Temperature *Meter accuracy ±5%
Environmental	0-50°C, up to 95% humidity
Standards	AS 1955, AS 3000, AS 3100, AS 4044, AS2069
Communications	DNP3, TCP/IP, Web-server, RS485 Modbus, SNMP, USB-B
Psophometric	Noise 2mV: 300Hz-3400Hz
Wide Band Noise	50mV: 3.4kHz-150kHz 20mV:0.15MHz-30MHz
EMC	AS 2064-1997
MTBF/MTTR	100,000 Hours/ 4 Hours
Efficiency	85-90% depending on nominal voltage and power rating
Audible Noise	<50dB
Cooling	Forced Air
Dimensions	605mm D x 600mm W x 1170mm H
Weight	Approx 80kgs without batteries Approx 145kgs with batteries

BATTERY SPECIFICATIONS: LiFePO4

Number of Cells	32 x 72Ah
Type	LiFePO4, Lithium Iron Phosphate
Number of Modules	3
BMS Magellan Passive	95%
Weight of each module	25kg

