

Specialised UPS – Traffic Management Solutions

Amber Light Emergency Power Unit

Based on the same platform as the Magellan Power Traffic Signal UPS, the Magellan Power Amber Light Emergency Power Unit (ALEPU) provides emergency power to a pulsing amber light in a traffic signal where the grid power has been interrupted and the full traffic signal is unable to operate.

A single 12V 80A high temperature Lithium LIFEP04 battery powers the unit and is sufficient to operate and flash the amber globes for 4 hours. When the grid is present the battery is charged via the inverter operating in "charger mode".

Product Features

- Sine-wave bi-directional inverters
- High surge capability
- Capable of operating at extreme temperatures
- Built-in phasing circuit
- Naturally cooled
- Requires only one battery
- Easy installation – fits in standard traffic control enclosure
- Rugged
- Programmable duty cycle
- Fail safe



Technical Specification

Item	Specification
Nominal Battery Voltage	12Vdc
Battery Voltage Range	12V – 16 Vdc (Lithium) 9.5– 16 Vdc
Nominal AC Output Voltage	240 Vac
Mains Input Voltage Range	216 – 264V
Mains Input Frequency Range	45 – 55 Hz
Nominal Inverter/Charger Power Rating	500 VA
Continuous Charger Power Rating	150 W
Conversion Efficiency	> 85%
Surge Rating	2000 VA for 1 second
Load Duty Cycle	250ms ON 750ms OFF
Operating Temperature	-20 to 60°C
Indications / Controls	Green MAINS LED Green OUTPUT LED Red ALARM LED ON/OFF Push Button
Inverter / Charger Protections	Inverter Over Voltage Monitoring Inverter Over 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 Automatic Timed Restart on Fault
Battery Protections	Battery Over Temperature Monitoring Battery Voltage – Temperature Compensation Battery Under Voltage Monitoring Battery Over Voltage Monitoring
Voltage-Free Relay Outputs (normally Open & Closed)	Mains present relay
Emergency Mode Operation	Operate to minimum possible battery voltage
Monitored System Parameters	Battery Voltage & Temperature Inverter Voltage, Current & Temperature Mains Voltage, Current & Frequency Ambient Temperature Transformer Temperature
Battery	Lithium LIFEPO4 Battery 12V, 80A
Enclosure	Aluminium box, IP31 265W x 235D x 290H mm Battery is external to this box
Terminals	ITT 6-way (and 24-way (DC) Flying leads supplied for: Amber Light AC Input from Traffic Light Amber Light AC Output to Traffic Light Battery Battery Temperature Sensor Mains AC Input