Technical Data Sheet

E-POWA Autonomous Power Enclosure | 1,500 Wh



Reference | E-POWA1500

E-POWA provides a continuous power supply for equipment such as cameras, antennas, measuring and control devices. It stores energy from street lighting for use when the lighting is switched off.

Metal enclosure, pole-mounted with a maximum diameter of 200 mm; 3 × PG7 cable glands.

PoE injector can be integrated.

Technical Specifications

INPUT

Product reference: E-POWA1500
Supply voltage: 180·264 V AC, 50·60 Hz
Maximum input current: 5 A
Power factor: >0.98
Protection class: Class I

OUTPUT

Unregulated output: 22·29.2 V / 5 A max.
Maximum output power: 75 W
Regulated 12 V output: 12 V ±2% / 5 A max.*
Regulated 24 V output: 24 V ±2% / 2.5 A max.*
Regulated 48/52 V output: 52 V ±2% / 1.5 A max.*
Available energy: 1,350 Wh

BATTERY

Capacity: 60 Ah
Stored energy: 1,500 Wh
Charge current: 20 A
Cycle life (80% DOD): 2,000
Charge temperature: ·20 to +50 °C
Discharge temperature: ·20 to +45 °C

CONNECTIONS

Mains: 16 A breaker + earth terminal
Outputs 1 and 2: 4 mm² spring terminals

Dimensions: 800 (L) × 200 (W) × 135 (H) mm
Weight: 17.2 kg
Enclosure: IP66 metal, outdoor use
Warranty: 2 years

Protection

· 16 A curve D miniature circuit breaker
· 20 kA surge protection device

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*Optional regulated outputs: EP-12VREG, EP-24VREG or EP-52VREG. Two outputs can be used simultaneously in the combinations shown below.

Output 1	Output 2
25 V unregulated	12 V regulated
24 V regulated	12 V regulated
25 V unregulated	48 V regulated

NR: unregulated R: regulated

The available output power depends on the duration of public street lighting. The longer the lighting period, the more energy E-POWA can store for the installation.

Public lighting duration	Available output power
0.5 h	8.2 W
1 h	16.7 W
1.5 h	25.6 W
2 h	34.9 W
2.5 h	44.7 W
3 h	54.9 W
4 h	60.5 W
5 h	63.7 W
6 h	67.2 W
7 h	71.2 W
8 h	75.6 W

Operating Principle



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Mains Input Terminal



Single-phase mains input with earth through a 16 A circuit breaker. Integrated surge protection protects the AC input.

Output Terminal



Two 4 mm² spring-terminal outputs are provided to power the connected installation.

Cable Glands



Three cable glands are provided for the E-POWA power supply and the two output connections.

PoE Injector Mount



A mounting support is provided for a PoE injector with four outputs for powering cameras.