

XLR-16 Supercapacitor module



Ruggedized, dependable, high power density, long-life supercapacitor modules



The XLR-16 supercapacitor module is compact and easy to install

Product description

Eaton's XLR-16 supercapacitor modules provide industry leading ESR, high power density, and ultra-long lifetimes in applications such as generator starting, material handling systems, wind turbines, transportation systems, and rail/traction.

The XLR-16 module provides continuous current, reliable power delivery, and high vibration withstand in a modular, industry-standard footprint. The modules can be utilized as stand-alone energy storage or in combination with batteries to optimize cost, lifetime, and runtime needs.

Features and benefits:

- High peak power cycling capability
- Ruggedized enclosure with high-vibration withstand capabilities
- IP65 rated for moisture and dust resistance
- Compact, modular footprint for space constraint applications
- Industry-leading ESR and ultra-long life* with millions of charge/discharge cycles
- Simple integration with integrated cell balancing
- Maintenance-free operation with overvoltage alarm and temperature output



The XLR-16 supercapacitor module is a self-contained energy storage device comprised of 6 individual XL60 supercapacitor cells

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Electrical Specifications

| Capacitance (F) | Part number | Maximum working voltage (V) | Maximum initial ESR (mΩ) | Leakage current (mA) | Stored energy (Wh) | Peak power (kW) | Pulse current (A) | Continuous current (A) |
|-----------------|---------------|-----------------------------|--------------------------|----------------------|--------------------|-----------------|-------------------|------------------------|
| 500 | XLR-16R2507-R | 16.2 | 1.7 | 5 | 18.2 | 38.6 | 2189.5 | 122 |

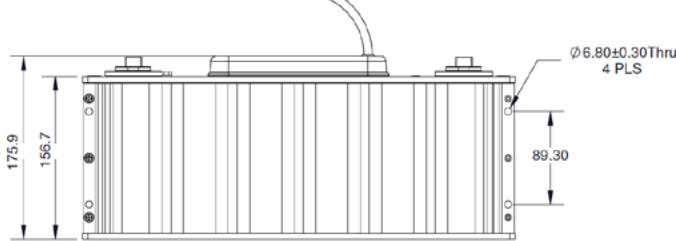
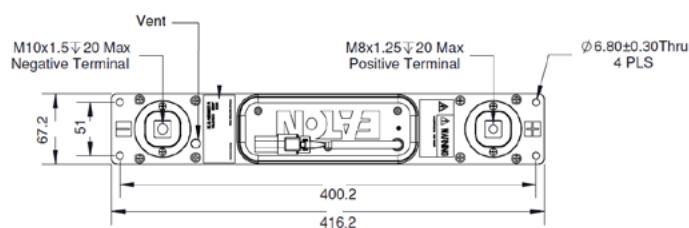
Environmental Specifications

| | |
|-----------------------------|--------------------|
| Operating temperature range | -40 °C to +65 °C |
| Operating life | Up to 20 years* |
| Shock and vibrations | SAE J2464 & J2380 |
| Environmental | RoHS, Halogen Free |

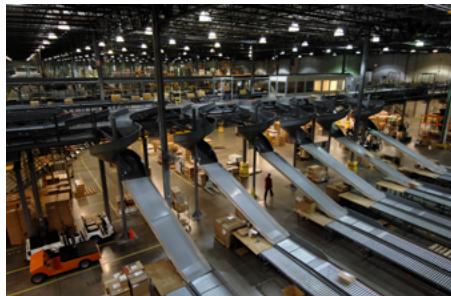
*Supercapacitor lifetimes vary based on charge voltage and temperature. See Eaton's application guidelines or contact your local Eaton sales representative for more information on lifetime estimates.

Dimensions (mm)

| H (max) | L (max) | W (max) | Weight (kg) |
|---------|---------|---------|-------------|
| 156.7 | 416.2 | 67.2 | 5.7 |



Engine / Generator starting



Material handling



Light rail and traction

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