



# 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

# EATON

Powering Business Worldwide

## 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

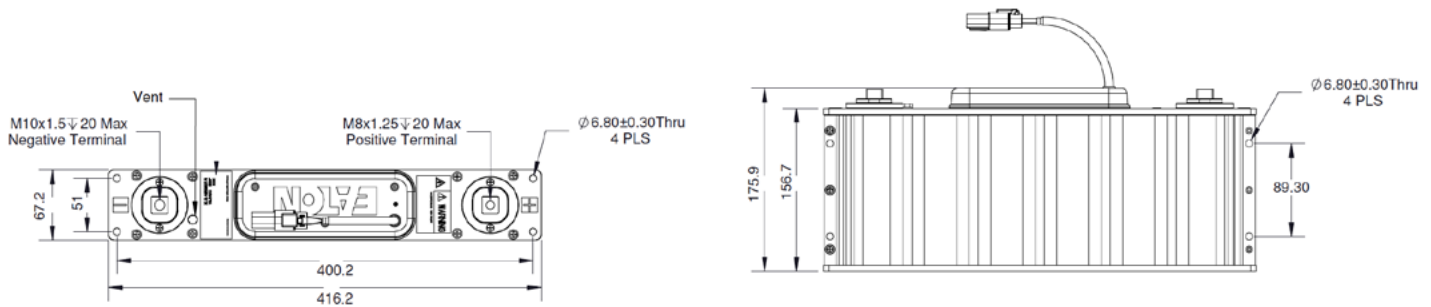
## Environmental Specifications

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

**Eaton**  
**Electronics Division**  
 1000 Eaton Boulevard  
 Cleveland, OH 44122  
 United States  
 Eaton.com/electronics

© 2019 Eaton  
 All Rights Reserved  
 Printed in USA  
 Publication No. 10947 BU-MC19077  
 August 2019

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.



**EATON**  
 Powering Business Worldwide