

# MAXWELL Ultracapacitors

RoHS Compliant This product is RoHS compliant.



## MODULES

### 16/48/56 Volt Power Module

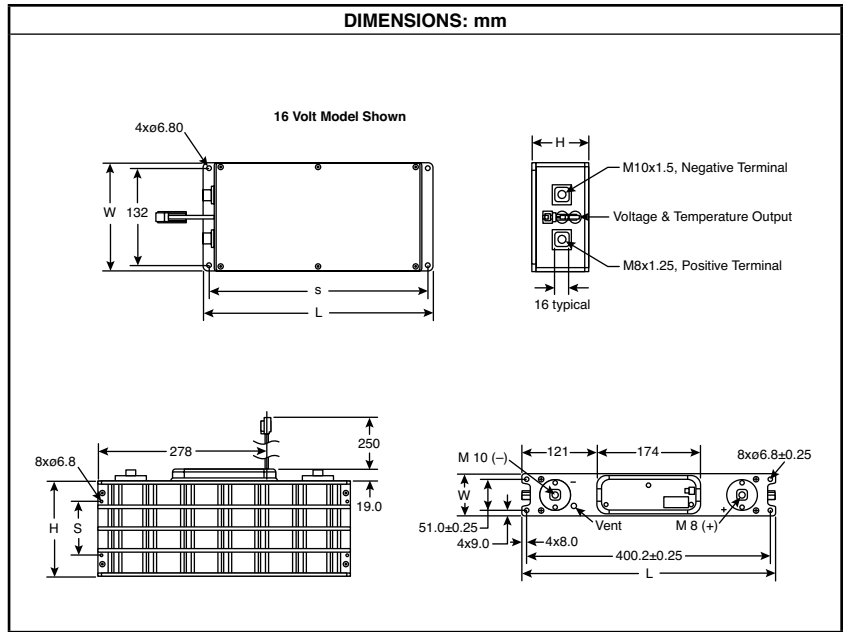
The Power-type ultracapacitor product line gives customers in the automotive and transportation sector a much wider range of choices to meet their energy storage and power delivery requirements. The modules are specifically engineered for hybrid vehicle drive trains, automotive subsystems and other heavy duty applications that require the lowest equivalent series resistance (ESR) and highest efficiency available. In addition to meeting or exceeding demanding automotive and transportation application requirements for both watt-hours of energy storage and watts of power delivery per kilogram, all of these products will perform reliably for more than one million discharge-recharge cycles. The proprietary architecture and material science on which BOOSTCAP® products are based enable continued leadership in controlling costs, flexibility in product offerings and allow application specific performance tailoring. The cells used in the modules operate at 2.7 volts, enabling them to store more energy and deliver more power per unit volume than any other commercially available ultracapacitor products.

#### Features:

- 16.2V/48.6V Operating Voltage
- Ultra Low internal resistance
- Over 1M duty cycles
- Individually balanced cells
- Mountable option included
- Voltage and temperature sensor output included
- Compact, rugged, fully enclosed and splash proof design

#### Applications:

- Industrial
- UPS
- Power Quality
- Telecommunication
- Renewable energy



### 16 Volt



MOUSER STOCK NO.		Capacitance (F)	ESR, DC (mΩ)	Emax (Wh / kg)	Pmax (W / kg)	Ic (mA)	Maximum Operating Voltage	Dimensions: mm				Price Each	
Mfr.	Mfr. Part No.							L (±0.25mm)	W (±0.25mm)	H (±0.25mm)	s (±0.25mm)	1	5
723	BMOD0110P016	110	5.6	1.49	6,000	1.5	750 V DC	260.1	154.9	79.3	240.0	642.86	600.00
723	BMOD0250P016	250	4.1	2.05	4,400	3	750 V DC	416.2	67.2	103.2	53.7	875.00	750.00
723	BMOD0500P016B01	500	2.1	3.17	6,700	5.2	750 V DC	416.2	67.2	156.7	89.3	1110.00	1054.50
723	BMOD0500P016B02	500	2.1	3.17	6,700	5.2	750 V DC	416.2	67.2	156.7	89.3	1110.00	1054.50

### 48 Volt

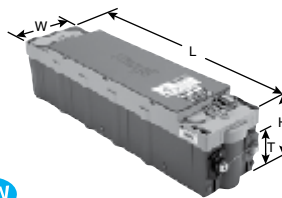
MOUSER STOCK NO.		Capacitance (F)	ESR, DC (mΩ)	Emax (Wh / kg)	Pmax (W / kg)	Ic (mA)	Dimensions: mm				Price Each	
Mfr.	Mfr. Part No.						L (±0.25mm)	W (±0.25mm)	H (±0.25mm)	s (±0.25mm)	1	5
723	BMOD0083P048	80	12.3	2.48	5,400	3.0	416.2	190.2	103.2	53.7	2200.00	2090.00
723	BMOD0110P048	110	93.5	2.91	6,200	4.2	416.2	190.2	120.2	70.7	2640.00	2508.00
723	BMOD0165P048	165	7.1	3.81	7,900	5.2	416.2	190.2	156.7	89.3	2482.00	2397.60

#### Features:

- Up to 10KW in half rack, 4U module
- Standard rackmount configurations
- Rated voltage: 56V
- Cycle life 1,000,000 cycles

#### Applications:

- Datacenter UPS
- Hospital UPS
- Industrial Process Equipment Backup
- Power for graceful shutdown
- Transition power for motor-generator set or fuel cells



#### Benefits:

- Easy integration into existing systems
- Lowest Total Cost of Ownership for back up energy storage
- Maintenance free with no toxic materials



### 56 Volt

MOUSER STOCK NO.		Maxwell Part No.	Capacitance (F)	ESR, DC (mΩ)	Ic mA	Voltage Max	Power (W/kg)	Energy Max (W/kg)	Dimensions: mm				Price Each	
Mfr.	Mfr. Part No.								L (±0.5mm)	W (±0.5mm)	H (max)	T (±0.5mm)	1	5
723	BMOD0130P056B03	BMOD0130 P056 B03	130	8.1	120	750V	5400	3.1	665	176	173	77	2069.00	2011.50

## ACCESSORIES

### BOOSTCAP® Integration Kit

#### Features:

- Simple design and assembly
- Maximize system lifetime by protecting individual cell against over voltage during rated system use
- Compatible with BCAP3000, 2000, 1500, 1200, and 650

#### Applications:

- Fast prototyping
- Application specific modules



MOUSER STOCK NO.		Operating Voltage Range (indiv. Cell)	Normal Balance Current	Balance Voltage Accuracy	Leakage Current (Vs=5V and Io=0)	Temperature Range		Price Each	
Mfr.	Mfr. Part No.					Operating	Storage	1	5
723	BKIT-MCINT	+2.72 V to +2.86 V DC	0 to +300mA max	±0.100V DC 50°C @ ±100µA max	25°C @ ±50µA max	-40°C to 65°C	-40°C to 85°C	94.00	89.30