

MAXWELL Ultracapacitors

RoHS Compliant This product is RoHS compliant.

Maxwell
TECHNOLOGIES
Enabling Energy's Future™

MODULES

16/48/56 Volt Power Module

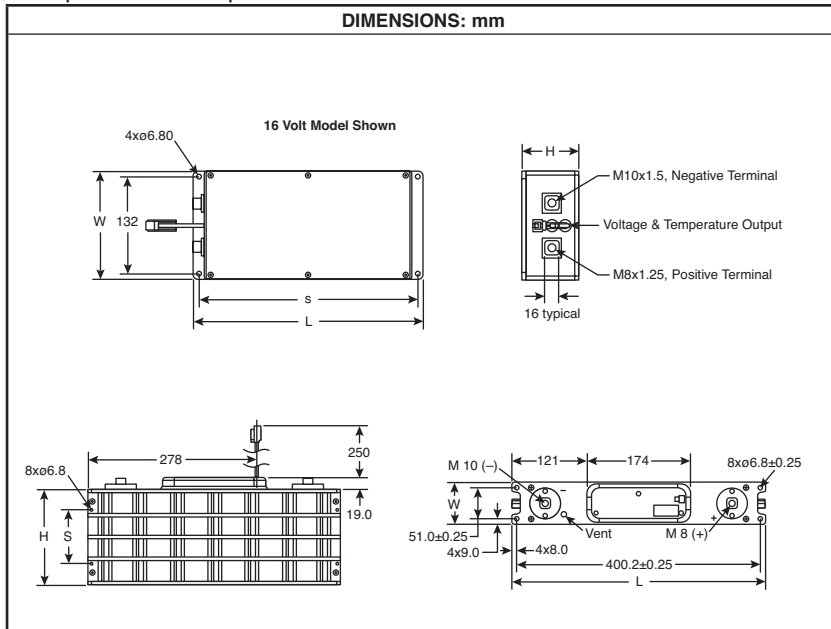
The Power-type ultracapacitor product line gives customers in the automotive and transportation sector a much wider range of choices to meet their energy storage and power delivery requirements. The modules are specifically engineered for hybrid vehicle drive trains, automotive subsystems and other heavy 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



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For quantities greater than listed, call for quote.

| 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 | —BMOD0250P016 | 250 | 4.1 | 2.05 | 4,400 | 3 | 750VDC | 416.2 | 67.2 | 103.2 | 53.7 | 731.25 | 675.00 |
| 723 | —BMOD0500P016B01 | 500 | 2.1 | 3.17 | 6,700 | 5.2 | 750VDC | 416.2 | 67.2 | 156.7 | 89.3 | 895.00 | 796.00 |

48 Volt

For quantities greater than listed, call for quote.

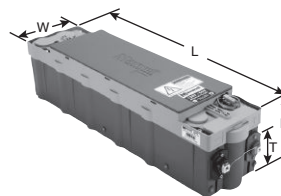
| MOUSER STOCK NO. | | Capacitance (F) | ESR, DC (mΩ) | Emax (Wh / kg) | Pmax (W / kg) | Ic (mA) | Dimensions: mm | | | | Price Each | |
|------------------|---------------|-----------------|--------------|----------------|---------------|---------|----------------|-------------|-------------|-------------|------------|---------|
| 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 | 1571.00 | 1447.00 |
| 723 | —BMOD0110P048 | 110 | 93.5 | 2.91 | 6,200 | 4.2 | 416.2 | 190.2 | 120.2 | 70.7 | 1885.00 | 1746.00 |
| 723 | —BMOD0165P048 | 165 | 7.1 | 3.81 | 7,900 | 5.2 | 416.2 | 190.2 | 156.7 | 89.3 | 1950.00 | 1753.00 |

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



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56 Volt

For quantities greater than listed, call for quote.

| 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 | 1995.00 | 1842.00 |

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



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| 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 |