

BMOD0094 P075 B02



PRODUCT SPECIFICATIONS

CAPACITANCE	
Nominal capacitance	94 F
Tolerance capacitance	+20% / -0%
VOLTAGE	
Rated voltage	75 V DC
Surge voltage	90 V DC
Maximum operating voltage	86 V DC
Isolation voltage 50Hz, 1 min. Maximum string operating voltage 1,500 V DC	2,500 V AC
RESISTANCE	
ESR, DC Max., room temperature	15 mΩ
Resistance tolerance	Max.
Thermal resistance (Rth)	N/A
TEMPERATURE	
Operating temperature range	-40°C to +65°C
Storage temperature range	-40°C to +70°C
Temperature characteristics	
Capacitance change	± 5% at 25°C
Internal resistance change	± 150% at 25°C
POWER	
Pd	2,400 W/kg
Pmax	6,800 W/kg
ENERGY	
E _{max}	3.98 Wh/kg
Energy available Energy Available equals 1/2C (V _{nom} ² - 1/2V _{nom} ²) / 3600	55 Wh
LIFESPAN	
Lifetime 75 V DC, RT End of life characterized as -20% C from nominal C, or increase of 100% in ESR	150,000 hours
Endurance	
Capacitance change	<20% decrease
Internal resistance change	<60% increase
Life test	
Capacitance change	20% decrease
Internal resistance	100% increase

CYCLES	
Cycle life 75 to 37.5 V DC, RT	1,000,000
Capacitance change	30% decrease
Internal resistance	150% increase
CURRENT	
Leakage current	150 mA
Short circuit current (I _{sc})	4,800 A
Maximum continuous current	50 A
Maximum peak current, 1 sec 1 second, 10% duty cycle	150 A
Self discharge % of initial V; 29 hours RT 75V; 12 hours charge and hold	50%
CONNECTION	
Terminal	Screw
MONITORING (IN-BUILT)	
Balancing	Passive
Fan voltage	N/A
Thermal monitoring	PT100
SIZE	
Dimensions (L x W x H) (mm) (±0.5mm)	515 x 211 x 263
Weight	25 kg
RATINGS	
Humidity resistance	IP54
Vibration resistance	SAE J2380

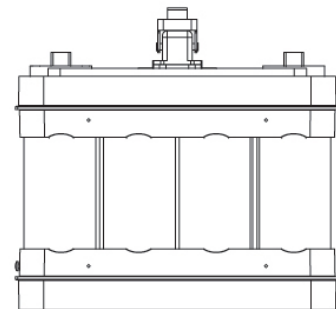
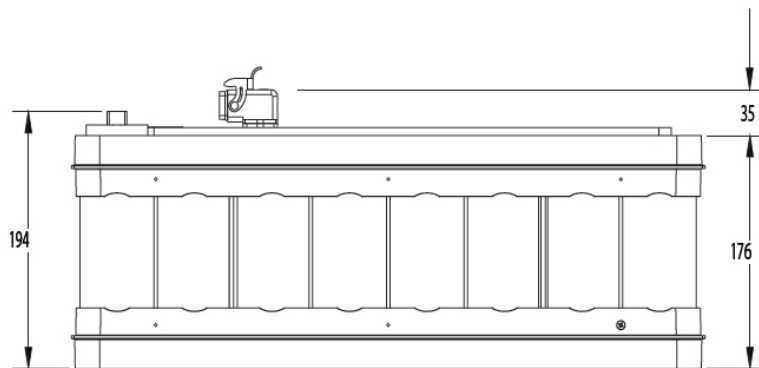
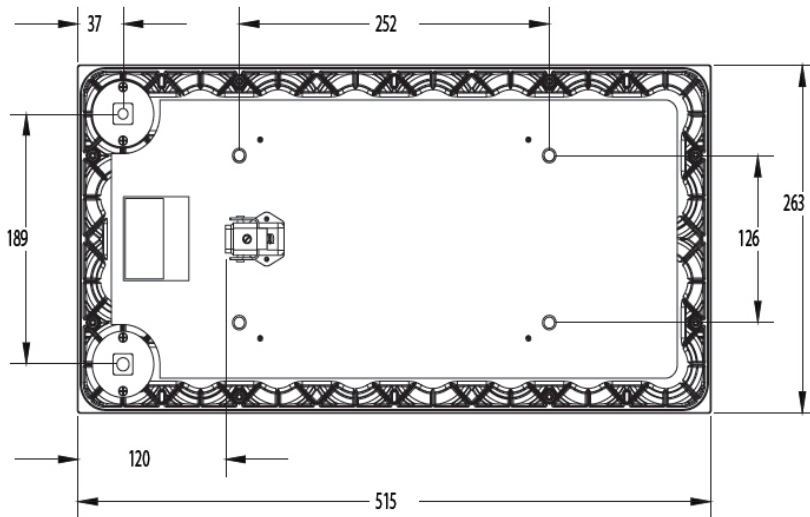
TYPICAL FEATURES AND BENEFITS

- Ultra-low internal resistance
- Highest power performance available
- Lowest time constant
- 75 V operating voltage
- Temperature monitoring
- Over 1,000,000 duty cycles
- Water, dust and vibrations resistant with IP54 and SAE J2380 compliance

TYPICAL APPLICATIONS

- Grid / Power quality
- UPS / Backup for heavy machinery
- Wind turbine pitch systems

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Product dimensions are in mm and for reference only unless otherwise identified. Product dimensions and specifications may change without notice. Please contact Maxwell Technologies directly for any technical specifications critical to application.

INCLUDED IN BMOD0063 P125

2 power connectors; threaded aluminium:

- 1x M8 (positive)
- 1x M10 (negative)

1 Monitoring connector:

- Harting® HAN 09 37 003 0801 (base), 09 36 008 3001 (insert) Thermal monitoring through PT100 Minco S17624PDYT20B

MARKINGS

Modules are marked with the following information: Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal, warning marking, serial number.

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