

## Lug Connection

Series: BMOD



### Features:

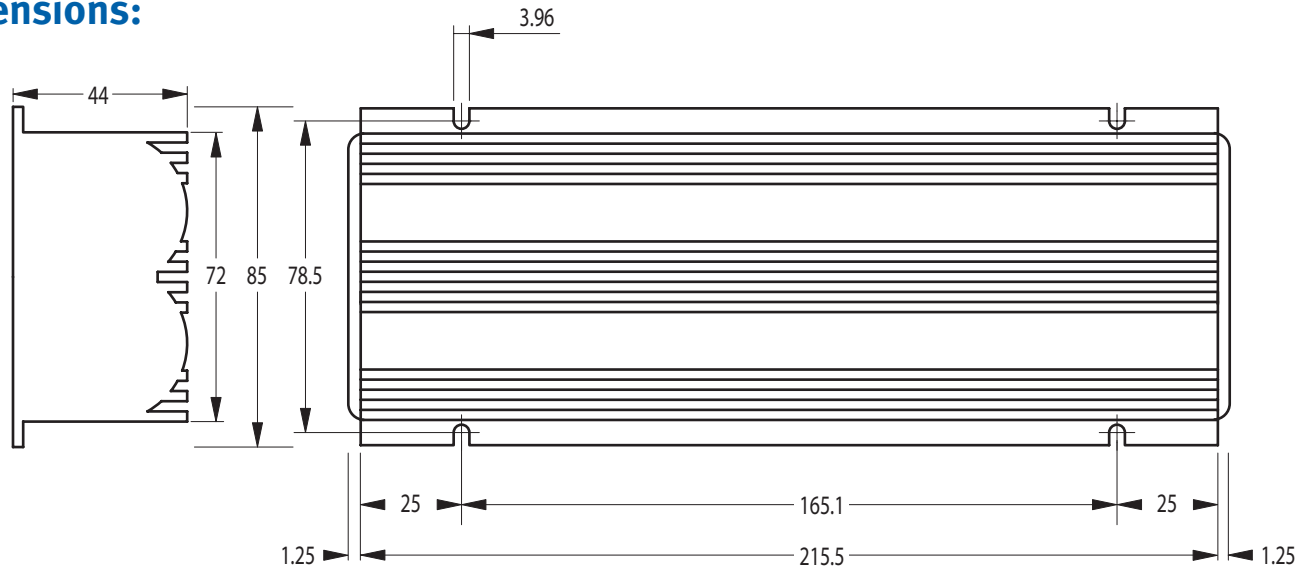
- › 15 V working voltage
- › Individually balanced cells
- › Rugged, fully enclosed system
- › Screw mountable
- › Module-to-module balance cable included



### Applications:

- › Automotive subsystems
- › Heavy duty vehicle subsystems
- › Rail system power
- › Windmill pitch control systems
- › Wireless transmissions

### Dimensions:



Case size	Part #	Balancing	Dimensions, mm			Weight [g]	Vol. [l]	Typical package qty
			L	W	T			
BMOD0350-15EA	104058	Active	218	85	44	680*	0.69	1
BMOD0350-15ER	104057	Passive	218	85	44	680*	0.69	1

\* Weight does not include mounting rails.

Product dimensions and specifications may change without notice. Please contact Maxwell Technologies directly for any technical specifications critical to application.

## › Specifications:

	Product Specification			
	BMOD0350-15EA	BMOD0350-15ER	Tolerance	Standard
Mounting	Screw to chassis surface			
Capacitance, C <sub>R</sub> [F]	58		+/- 20%	
Voltage, U <sub>R</sub>	15			
Internal resistance, DC [ohm]	0.018		+/- 25 %	Discharging at Constant Current (25°C)
Internal resistance, 1 kHz [ohm]	0.009		+/- 25 %	Discharging at Constant Current (25°C)
Rated current, [A]	47			
Leakage current [mA]	0.001	0.05		72 hrs, 25°C
Operating temp. range [C]	-40 to 65			
Storage temp. range [C]	-40 to 70			
Endurance, Capacitance [F]	< 20% decrease			1000 hrs @ U <sub>R</sub> and 65°C
Endurance, Resistance [ohm]	< 25% increase			
Power, P <sub>d</sub> [W/kg]	3,000			See additional technical information
Power, P <sub>v</sub> [W/l]	2,650			
Life Time	△C < 20% decrease, ESR < 200% increase			from initial value after 10y @ 25°C
Cycle Life	△C < 20% decrease, ESR < 200% increase			from initial value after 500K cycles @ 25°C (I = 5A)

## › Markings: Capacitors are marked with the following information

Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal

## › Mounting Recommendations:

The module should be mounted to a strong chassis surface with four 6-32, or M4 screws. The mounting screws should have a mechanical locking method that is appropriate for the vibration levels. To provide the best possible EMI protection, the mounting surface should be electrically grounded.

## › Additional Technical Information:

$$P_d = (0.12 \times E^2 / R_d) / M \quad \text{where } E = \text{charge voltage (U}_R\text{), } R_d = \text{internal resistance (DC)}$$

$$M = \text{capacitor weight (kg)}$$

$$P_v = (0.12 \times E^2 / R_d) / V \quad \text{where } V = \text{capacitor volume (l)}$$

US Patent: 6,806,686 and additional Patents Pending

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