



# BCM Range

## 24 VOLT Switch Mode Battery Charger



### Technical data

Model	BCM2408/2	BCM2415/3	BCM2425/2	BCM2450/2
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#### INPUT

Input voltage	180V AC – 270V AC			
Input frequency	47Hz to 63Hz			
Input current	1.8 amps. max	3.6 amps. max	6 amps. max	12 amps. max
Efficiency	>80% @ full load	>80% @ full load	>80% @ full load	>80% @ full load

#### OUTPUT

Float voltage	27.6V +/-0.02V DC			
Boost voltage	26.8V +/- 0.2VDC			
Boost – float changeover	When charging current drops to			
	1.5A +/- 0.4Amps	3A +/- 0.75Amps	5A +/- 1.2Amps	10A +/- 2.5Amps
Load regulation	< 0.4% ( 0 to full load )			
Line regulation	< 0.1% ( 180 – 270V AC )			
Charging current @ 24 Volt output	8A +/- 0.4 Amps	15A +/- 0.8 Amps	25A +/- 1.2 Amps	50A +/- 2.5 Amps
Number of outputs, (Common Negative)	2 ( built in diode splitters, sensing off one output )	3 ( built in diode splitters, sensing off one output )	2 ( built in diode splitters, sensing off one output )	2 ( built in diode splitters, sensing off one output called +M )
100Hz ripple	< 0.6% RMS			
High frequency ripple	< 1% pk – pk (100kHz)			
High frequency noise	< 3% pk – pk (10MHz bandwidth)			

#### GENERAL

Ambient temperature range	-10°C to +45°C			
Cooling	Convection Cooled	Low speed fan	Variable speed fan	Variable speed fan
Size : high(h) x wide(w) x deep(d) [mm]	170 x 155 x 65	220 x 170 x 65	350 x 165 x 65	350 x 220 x 65
Weight	1.2kg	1.8kg	3kg	5kg
Input connections	2m. 3 core mains cable	2m. 3 core mains cable	Standard IEC Inlet	Standard IEC Inlet
Output connections	3 way screw terminal block for 4mm <sup>2</sup> max cable	4 way screw terminal block for 6mm <sup>2</sup> max cable	4 way screw terminal block for 10mm <sup>2</sup> max cable	M6 Studs ( +M, +2, common –ve )
Remote sensing facility for positive output	n/a	n/a	Yes	Yes
Current indication by 5 segment bar graph	n/a	n/a	n/a	Yes

#### PROTECTION

Reversed Battery	Blows an internal fuse
Over-temperature	Unit shuts down if internal heatsink temperature exceeds the normal maximum level. Automatic re-start.
Over-voltage	Unit shuts down if the output voltage exceeds the normal maximum level. Automatic re-start.
Under-voltage	If the battery voltage is less than 10 volts, the average current reduces until the voltage rises to approx 25% of full current rating.
Over-charge	After 4 hrs above the float voltage, the output is switched to the float voltage regardless of charging current