

GENIUS



The Genius is a revolutionary battery management system designed to offer a complete power solution for caravanning applications. As the ultimate all in one device, it includes a 35 amp power supply for 12 Volt loads, 15 amp multistage charger, battery protection features including low voltage disconnect and a large fused distribution board. Designed and manufactured in Australia, the slim and sturdy Genius is fully equipped to charge the current generation of deep cycle batteries.

This device has been designed for operation in a recreational vehicle to provide a DC power system, with optional battery backup. The unit operates from 240 Vac and provides an isolated 13.8 Vdc output at 35 A for powering the load and charging of batteries.

All of the necessary protection and operating features for the load and batteries are included. An optional DC input is also provided to enable charging of batteries and powering of the load from an external +13.8 Vdc power source.

Key features

- › Combined power supply and charger
- › Boost, float, store and trickle charge modes
- › Low voltage disconnect
- › Safe, flexible and reliable
- › Battery protection features including - reverse battery connection, over voltage, under voltage
- › Distribution board
- › Auxiliary DC input
- › Status indicator
- › Compatible with all lead acid type batteries



Safety standards

- › AS/NZS 60335.2.29

EMC standards

- › AS/NZS CISPR 22

EMS standards

- › SAE J1113-11
- › EN 55104

Other standards

- › EU Directive 2002/95/EC RoHS

SPECIFICATION

Output Current	35.1 A to 42.5 A (Load + battery charging current)
Battery Current Limit	15 A ± 1 A
Factory Set Voltage	13.65 V ± 0.05 V
Battery Trickle Charge	0.8 A
Battery Drain	< 2 mA
Output Ripple Voltage	< 150 mV
Load Regulation	-3 %
Over Voltage Protection	< 16 V
Over Current Protection	35.1 A to 42.5 A (Load + Battery Current)
Battery Undervoltage Disconnect	Yes

GENERAL SPECIFICATION

Input Voltage	198 Vac to 270 Vac, 50Hz / 60Hz
Inrush Current	< 40 A (Cold start)
Efficiency	> 90 % (Full Load and 240Vac input)
Operating Temperature	0 °C to 50 °C
Humidity	≤ 80% RH non-condensing Non-operating: ≤ 95% RH non-condensing
Altitude	Operating: 1000 m Non-operating: 10000 m
Dimensions	316 mm x 179 mm x 87 mm (Approx.)
Weight	Approx. 4 kg



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SWITCH OFF. POWER UP

All data is subject to change without notice V1BC-200114