



- A controller for virtually any DC charging source.
- Silent, Pulse Width Modulation (PWM) for high efficiency operation.
- Three stage battery charging (Bulk, Absorption & Float).
- Optional temperature compensated charging and regulation.
- Automatic overload protection in both active and passive modes.
- PV array short circuit protection and reverse polarity.
- Durable construction with a two year warranty.

The C-Series controllers have long been regarded for their high power output, precise control, versatility and long term reliability. The heart of the C-Series controllers is the powerful microprocessor, which helps increase the system performance and maximise battery life. The battery charge cycle is an automatic three stage charging cycle of boost, absorption and float which ensures that the voltage and current settings accurately match the batteries actual state of charge. This means that as fast as possible recharging is capable, while ensuring the life of the batteries are extended.

The C-Series are simple to set up in the field, and are fully adjustable. The C35 and C60 models work on either 12 or 24 volt DC systems, while the C40 model can work on 12, 24 or 48 volt DC systems. The Boost and Float settings can be programmed to suit

your system requirements (such as battery types like flooded, AGM, Gel & Nicad). With these adjustable settings, along with the Pulse Width Modulation charging profiles, you can be assured of minimal gassing of your batteries during recharge.

Other Uses – When using the C-Series as a DC load controller where high and low voltage disconnect points are required, the C-Series can be used as a load controller capable of carrying high current rates (e.g. 35, 40 or 60amps). Alternatively, the C-Series can be used as a DC diverter designed to 'dump' excess power to other applications such as water or space heaters.

Optional Accessories – The C-Series can use an LCD remote control panel which features a back-lit display meter that constantly shows battery

voltage, DC amperage, cumulative amp-hours and amp-hours since the last reset. Two models are available:

- CM which fits directly to the front of the controller; or



- CMR/50 which can be used as a remote monitor; with simple plug in extension cable.

For precise charging of batteries, there is a temperature compensation kit available which monitors the battery temperature and adjusts the charging voltage for maximum performance, with minimal risk of battery damage.

Electrical Specifications			
Models	C35	C40	C60
Voltage Configurations	12 - 24 VDC	12, 24 & 48 VDC	12 - 24 VDC
Maximum PV Array Open Circuit	55 VDC	125 VDC	55 VDC
Charging Current @ 35C	35 amps Constant	40 amps Constant	60 amps Constant
Maximum Peak Current	85 amps intermittently - Electronically protected.		
Maximum Voltage Drop	0.30 volts - Charge control model		
Total Current Consumption	While operating - 15 ma (typical), at idle - 3ma		
Charge Regulation Method	Solid state, 3 stage (Bulk, absorption and float) pulse width modulation (PWM)		
Standard Features			
Status Indicators	Multicolour LED indicates the operating / battery voltage status		
Low Voltage Disconnect	User selectable manual or automatic reconnection - includes warning flas before disconnect and provides a 'grace' period.		
Equalisation Charge	User selectable manual or automatic equalisations (every 30 days)		
Short Circuit Protection	Fully electronically protected with auto-reset.		
Field Adjustable Control Set Points	Adjustable setpoints for loads and charging sources (retained if battery is disconnected)		
Physical			
Temperature Range	0 to 40°C	0 to 40°C	0 to 40°C
Dimensions (mm)	203 x 127 x 63.5	254 x 127 x 63.5	254 x 127 x 63.5
Mounting	Vertical wall mount	Vertical wall mount	Vertical wall mount
Weight	1.2Kg	1.4Kg	1.4Kg
Warranty	Two years	Two years	Two years
Options	LCD remote control panel with built in backlit alpha numeric LCD display panel. Displays battery voltage, DC amperage, cumulative amhours & amhours since last reset. External battery temperature sensor for precise adjustment of voltage set points.		