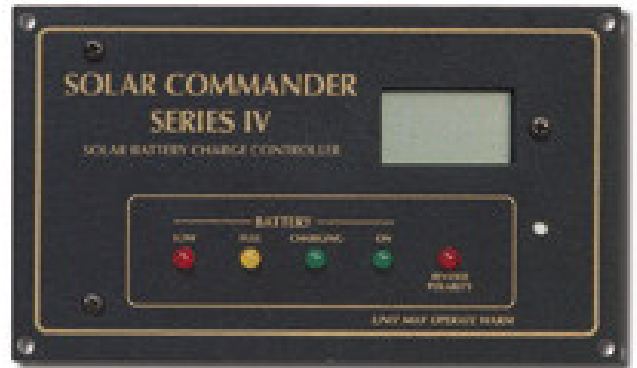




KYOCERA SOLAR, INC.

SOLAR COMMANDER SERIES IV - MODEL FM16C SOLAR BATTERY CHARGE CONTROLLER

Model FM16C is an advanced solar battery charge-only controller designed for use in RV recreational vehicle traveler kits, small rural electrification and introductory level systems. The controller provides a solid state, without relay design providing a cost effective migration of technology for users and systems currently using relay based or traditional "on-off" controllers. The FM16C features a pulse-width-modulation charge circuit, which will positively ensure a well-controlled bulk and then taper charge of the battery at the regulated voltage. This unique design without a microprocessor finally brings to the first time user a PWM product at a price which is extremely attractive to replace the older charging technology currently being used.



The attractive faceplate displays four system status LED's, and features a built-in LCD digital system monitor which accurately monitors battery voltage and push button displays PV current. The reverse polarity protection circuit design features a reverse polarity red LED for PV or battery, ensuring proper hook up.

Standard Features

- Flush mount faceplate design
- Advanced solid state design
- Pulse-width-modulation charge algorithm to extend battery life compared to conventional "on-off" type controller
- Temperature compensation circuit to automatically adjust the optimum battery regulation
- Lightning transient protection
- PV and battery reverse polarity protection
- Selection of battery type between flooded and sealed
- Flush mount packaging
- Parallel capability
- 5 year limited warranty

Ratings

- Battery Voltage: 12.0 Volts
- Maximum PV current: 16.0 Amps
- Self-Consumption: 17.0 mA

Temperature Setpoints

- Operating Temperature Range: -30°C to +70°C
- Temperature Compensation Coefficient: -4mV/Cell/°C

Control Setpoints

- | | <i>Sealed
Battery</i> | <i>Flooded
Battery</i> |
|-----------------------|---------------------------|----------------------------|
| • Regulation Voltage: | 14.1 V | 14.4 V |

Other Specifications

- Weight: 6 oz. (.17 kg)
- Dimensions: 6.0 x 3.5 x 1.7 in. (15.24 x 8.89 x 4.32 cm)
- Voltage Drop PV/Battery: 0.17 Volts
- Meter Accuracy: 2%

Options

Surface Mount Enclosure



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Specifications subject to change without notice.