



| PARAMETER | | SPECIFICATIONS – MODEL NO. SMC-10 | |
|--------------------------|---|---|--|
| | | 12V BATTERY SYSTEM | 24V BATTERY SYSTEM |
| INPUT/OUTPUT CONNECTIONS | TYPE AND WIRE SIZE | Terminal with 6mm dia. tubular hole and setscrew. Will accommodate: Conductor - stranded wire: 16mm ² / AWG #6 Conductor - solid wire: 25 mm ² / AWG #4 | |
| | OVERLOAD / SHORT CIRCUIT | PV Side: Disconnect input if current is > 25A for 3 sec Load Side: Disconnect Load output if load current > 25A for 3 sec | |
| PROTECTIONS | OVER TEMPERATURE (MEASURED INSIDE THE MICROCONTROLLER) | > 80°C: Shut down the Load (PV is still connected). Auto-reset at < 75°C. > 85°C: Disconnect PV input. Auto reset at 80°C. | |
| | OVER CHARGE | Disconnect PV and Load at ≥ 15V. Auto reset at < 15V. | Disconnect PV and Load at ≥ 30V. Auto reset at < 30V. |
| | OVER VOLTAGE AT PV INPUT | 48V | 48V |
| | REVERSE POLARITY OF PV PANEL | Up to 47V | Up to 36V |
| | REVERSE BATTERY AND LOAD POLARITY | Yes. NOTE: Reverse battery polarity combined with short circuited or polarized load may damage the load or the controller. | |
| | REVERSE CURRENT PROTECTION AT NIGHT | Yes | Yes |
| COMPLIANCE | SAFETY ELECTROMAGNETIC COMPATIBILITY EUROPEAN STANDARD ROHS QUALITY | CE Marking Directive 93/68/EWG CE marked - 2004/108/EG EN55014; EN55022 Compliant ISO-9001 ISO-14001 | |
| ENVIRONMENTAL | OPERATING AMBIENT TEMPERATURE | -25°C to + 50°C / -13°F to +122°F | -25°C to + 50°C / -13°F to +122°F |
| | INGRESS PROTECTION | IP 32 | IP 32 |
| GENERAL | DIMENSIONS | 187 x 96 x 45 mm / 3.36 x 3.75 x 1.77 in | |
| | WEIGHT | 345 gm. / 0.76 lb. | |

NOTES:

- All voltages are specified at 25°C / 77°F
- Special Order (Minimum Order Quantity applicable) with following customized programming. Customized programming is also possible with optional Programming Remote Control Model No. PA RC100:

| | |
|------------------------|--|
| Boost Voltage: | 12V Battery: 14.0V to 14.9V; 24V Battery: 28.0V to 29.8V. |
| End of Charge Voltage: | 12V Battery: 13.5V to 14.4V; 24V Battery: 27.0V to 28.8V. |
| Equalization Voltage: | 12V Battery: 14.4V to 15.3V; 24V Battery: 28.8V to 30.6V. |
| Battery Type: | Liquid (Flooded / AGM) with Equalization; Gel without Equalization |
| Load Disconnect: | 12V Battery: 10.8V to 12.3V; 24V Battery: 21.6V to 24.6V |
| Load Reconnect: | 12V Battery: 11.5V to 12.9V; 24V Battery: 23.0V to 25.8V |
| Night Light Function: | OFF / ON or for set duration of 1 to 8 Hrs |