Technical specifications:

| ELECTRICAL | |
|------------------------------------|---|
| System voltage ratings | 12 / 24 / 48 VDC |
| Current ratings | Battery charge control |
| TS-45 | 45A |
| TS-60 | 60A |
| Current ratings | Loadb control |
| TS-45 | 45A |
| TS-60 | 60A |
| Current ratings | Diversion charge control |
| TS-45 | 45A diversion load |
| TS-60 | 60A diversion load |
| Accuracy | 12 / 24V: ≤0.1% ± 50mV |
| | 48V: ≤0.1% ± 100mV |
| Min. voltage to operate | 9V |
| Max. solar array Voc | 125V |
| Max. operating voltage | 68V |
| Self-consumption | less than 20mA |
| | 95°C disconnect solar |
| High temp shutdowm | 90°C disconnect load / diversion load |
| | 70 $^{\circ}$ C reconnect solar / load / diversion load |
| Solar high voltage disconnect | highest equalization + 0.2V |
| HVD reconnect | 13.0V |
| Transient surge protection | |
| pulse power rating | 400watts |
| response | <5nanosec |
| BATTERY CHARGING / RTS | |
| Charge algorithm | PWM, constant voltage |
| Temp comp. coefficient | -5mV / °C / cell (25°C ref) |
| Temp comp. range | -30°C to +80°C |
| Temp comp. setpoints | PWM, float, equalize, HVD (with RTS option) |
| BATTERY CHARGING STATUS LED'S | |
| G | 13.3 to PWM |
| G/Y | 13.0 to 13.3V |
| | 12.65 to 13.0V |
| Y/R | 12.0 to 12.65V |
| R | 0 to 12.0V |
| Note1: Multiply x 2 for 24V system | s, x 4 for 48V systems |

Note1: Multiply x 2 for 24V systems, x 4 for 48V systems Note2: The LED indications are for charging a battery.

When discharging, the LED's will typically be Y/R or R.

| MECHANICAL | |
|------------------------|---|
| Dimensions(mm/inch) | H:260.4mm / 10.25inch |
| | W:127.0mm / 5.0inch |
| | D:71.0mm / 2.8inch |
| Weight(kg/lb) | 1.6kg / 3.5lb |
| Power terminals | compression connector lug |
| largest wire | 35mm2 / 2AWG |
| smallest wire | 2.5mm2 / 14AWG |
| Terminal wire slot | 8.2mm / 0.324 in wide |
| | 9.4mm / 0.37 in high |
| Knockout sizes | 1 and 1.25inch |
| Torque terminals | 5.65Nm / 50in-lb |
| RTS / Sense terminals: | |
| wire sizes | 1.0 to 0.25mm2 / 16 to 24AWG |
| torque | 0.4Nm / 3.5 in-lb |
| ENVIRONMENTAL | |
| Ambient temperature | -40°C ∼ +45°C |
| Storage temperature | -55℃ ~ +85℃ |
| Humidity | 100%(NC) |
| Enclosure | type1(indoor & vented), powder coated steel |
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