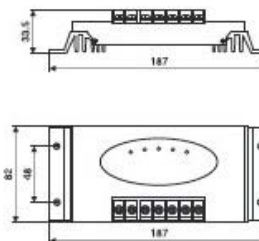


1.Function

- Battery State-of-Charge display with 3 LEDs;
- Acoustic load disconnect pre-warning;
- MPPT- regulation;
- Boost,Equalize and Folat charging,also for VRLA;
- Automatic 12/24 Volt detection;
- Integrated temperature compensation;
- Large terminals(up to 16mm² wire size);
- SOC and voltage controlled LVD;
- Fully electronically protected;



The SMT series is a sophisticated solar charge controller family for low cost applications. The electronic circuit is equipped with a microcontroller that provides high-efficiency charging technology together with a number of outstanding status display,warning and safety functions.

The temperature-compensated three-stage MPPT charging method(boost-equalizationfloat) is now adjustable to sealed and vented lead-acid batteries.

The new version also allows an either SOC or voltage controlled low voltage disconnect function. The battery status is clearly indicated by three LEDs.

As the first controller on the market in this price range it comes with an acoustic low voltage load disconnect pre-warning feature.



2.Technical Data

Model	SMT10	SMT15	SMT20	SMT30	SMT40
Nominal voltage	12/24V Automatic Recognition				
50℃ Max. solar panel current	10A	15A	20A	30A	40A
50℃ Max. load panel current	10A	15A	20A	30A	40A
25℃ Boost voltage	14.5V/29.0V				
25℃ Equalization voltage	14.8V/29.6V				
25℃ Float voltage	13.7/27.4V				
Deep discharge protection	11.4–11.9V/22.8–23.8V Controlled by statc of charge 11.0/22.0V Controlled by voltage				
Load reconnect voltage	12.8V/25.6V				
Temperature compensation	–4mV/cell × K				
Self consumption	<4mA				
Max. wire size	16mm ² (AWG#6)				
Dimensions(W × H × D)	80 × 187 × 28mm				
Weight	300g				
Temperature range	–20℃ ~+50℃				
Type of protection	IP42				