

## 1.Function

- Battery State-of-Charge display with 3 LEDs;
- Acoustic load disconnect pre-warning;
- PWM regulation (series type);
- Boost, Equalize and Float charging, also for VRLA;
- Automatic 12/24 Volt detection;
- Integrated temperature compensation;
- Large terminals (up to 16mm<sup>2</sup> wire size);
- SOC and voltage controlled LVD;
- Fully electronically protected;



The SML 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 PWM charging method (boost-equalization float) 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	SML05	SML08	SML10	SML15	SML20
Max. Module Current	5A	8A	10A	15A	20A
Max. Load Current	5A	8A	10A	15A	20A
System Voltage	12/24V Automatic Recognition				
Self Power Consumption	<4mA				
Dimensions(W×H×D)	80×100×32mm				
Type of Protection	IP22				
Boost Voltage	14.5/29.0(25°C), 2h				
Equalization Voltage	14.8/29.6(25°C), 2h				
Flood Voltage	13.7V/27.4V				
Load Voltage Disconnect Function	11.4–11.9V/22.8–23.8V, Controlled by state of charge 11.0V/22.0V, Controlled by voltage				
Load Reconnect Voltage	12.8V/25.6V				
Temperature Compensation	–4mV/cell*°K				
(25°C)Max. Solar Panel Current	5/8/10/15/20A, 30/35/40/50A According to model number @50°C				
(25°C)Max. Load Current					
Dimensions	120×90×50(W×H×D)				
Weight	0.38kg				
Max. Wire Size	24mm <sup>2</sup> (AWG#6)				
Self Consumption	4mA				
Ambient Temperature Range	–40°C ~+50°C				
Case Protection	IP22				