



## Intelligent Solar System Controller Mini ISC 10

Mini **ISC 10** Intelligent Solar System Controller is excellently suited for use in small solar home systems with 10 Amp and load power capacity up 160 Wp. Load such as light, mobile chargers, small TVs and radios can be switched off manually on the controller without additional wall mounted switches. In professional applications such as telecommunications and traffic management technology, the controller can also be used in small photovoltaic power supply system. The electronic fuse makes the controller completely maintenance-free and robust. Thanks to the universal series switching technology the controller can be used with amorphous, thin film and crystalline solar modules.



**PRODUCT NAME**  
Mini ISC 10

**MODEL NUMBER**  
ISC 1000

**Application:** Lighting, Solar Residential System, Recreational Vehicles, Marine Boat

### Product Features

- Microcontroller digital accuracy
- Voltage series regulation
- PWM control
- State of Charge (SoC) advanced technology
- Temperature compensation
- Common positive grounding

### Electronic Protection Functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overload protection
- Battery overvoltage shutdown

### Displays

- 3 LEDs show operating states - for operation, SoC, fault messages

### Operation

- Manual load switch with automatic re-start

### Certificates

- CE compliant according EN61000-6-1 and EN61000-3
- UL 1741 compliant
- RoHS compliant
- Manufactured according to ISO 9001 and ISO 14001



### MODEL NUMBER

ISC 1000

### Operating Performance

System Voltage 12 V  
Typical Idle Consumption < 10 mA

### DC input side

Open circuit voltage solar module <29 V  
Max. input current 10 A

### DC output side

Max. load current 10 A  
End of charge voltage 13.4 V ... 14.2V  
Boost charge voltage 14.4 V  
Reconnection voltage (LVR) 12.5 V  
Deep discharge protection (LVD) 11 V ..... 11.5 V

### Operating Conditions

Ambient Temperature -20°C ..... +50°C

### Fitting and construction

Terminal (fine/single wire) 6 mm<sup>2</sup> / 10 mm<sup>2</sup> - AWG 10 / 8  
Protection Degree IP 32  
Dimension (X x Y x Z) 118 x 90 x 31 mm  
Weight 160 g

*Technical data at 25°C/77°F*

