

SCU

Ideal for medium-sized solar installations

SCU Solar Control Unit is an ideal device for its use in Aids to Navigation solar installations of medium size or any other system.

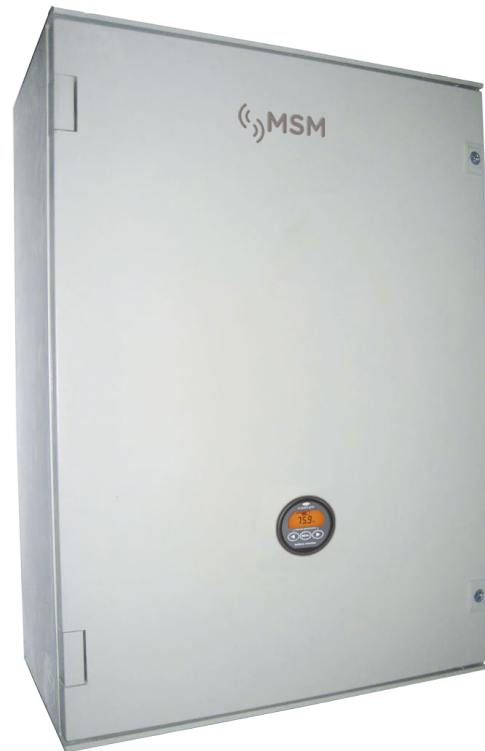
Overvoltage, overcharge and deep discharge protection

SCU provides a total overvoltage, overcharge and deep discharge protection of batteries, and also protects installation by interconnecting solar modules, battery and charge.

The SCU unit integrates a precision meter, which checks the battery state of charge.

Protection against atmospheric discharges

It is equipped with protection devices against lightning, surge and short-circuit protection of the installation.



FEATURES

- Charge controller:
 - This controller is responsible for controlling the battery charging by using the solar power system.
 - The drive has an up to 60 Amp capacity of current of the photovoltaic array (FV) to 12, 24 or 48V.
- Discharge controller:
 - This controller has the function of controlling the discharge of the battery, cutting the consumption current if the battery voltage is too low.
 - It prevents damages of the battery by over-discharges.
- Battery display:
 - LCD display allows to show the state of battery:
 - Battery voltage (V).
 - Charge and discharge current (A).
 - Amp-hour counter (Ah).
 - Battery state of charge (%).
 - PC connection to download historic data.
- Overvoltage protection:
 - Located at solar module inputs to protect installation against transient overvoltage caused by storms.

Standard Specifications

SPECIFICATIONS	SCU 4020	SCU 6030
Max. current charge	40 A	60 A
Max. current discharge	20 A	30 A
Fuses: Battery Solar modules	46 A (Type NH) 2 x 25 A (14 x 51 mm)	63 A (Type NH) 2 x 32 A (14 x 51 mm)
Common	Negative	
Weight	25 kg	32 kg
Dimensions	54 x 43 x 20 cm	64 x 43 x 25 cm
Voltage	12/24V	12/24/48V
Temperature sensor	External, optional	
Protections	Over-currents, over-voltages and short circuits	
Watertightness degree	IP 66 (IEC 60529)	
Battery temperature sensor	Optional	

Indicators / Parameters

- Battery voltage (V).
- Solar charge current (A).
- Operating current (A).
- Charge counter (Ah).
- Discharge counter (Ah).
- Disconnection alert from deep discharge.
- Voltage disconnection.
- Current (A).
- Charge status (%).
- Time-to-go (h): battery time-to-go with the current load.
- Temperature (°C).

Options

- Charge controller with MPPT tracker system of maximum power.
- ATEX versions for hazardous areas.
- Stainless-steel housing.
- Other powers and configurations available.



! Specifications subject to change without previous notice.