

SCU

Solar Control
Unit



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

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.

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.



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Specifications subject to change without previous notice.

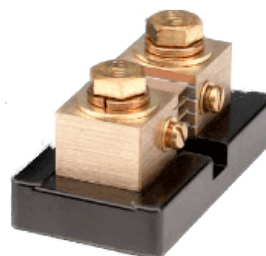
SPECIFICATIONS	MODELS	
	SCU 4020	SCU 6030
Max. current charge	40 A	60A
Max. current discharge	20 A	30 A
Fuses: Battery Solar modules	46 A (Tipo NH) 2 x 25 A (14 x 51 mm)	63 A (Tipo NH) 2 x 32 A (14 x 51 mm)
Common	Negative.	
Weight	25 kg	32 kg
Dimensions	54 x 43 x 20 cm	64 x 43 x 25 cm
Voltage	12/24V	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).	Voltage disconnection.
Solar charge current (A).	Current (A).
Operating current (A).	Charge status (%).
Charge counter (Ah).	Time-to-go (h): battery time-to-go with the current load.
Discharge counter (Ah).	Temperature (°C).
Disconnection alert from deep discharge.	

Options

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



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