

SOLARCON SCB

SOLAR CHARGE CONTROLLER WITH MPPT



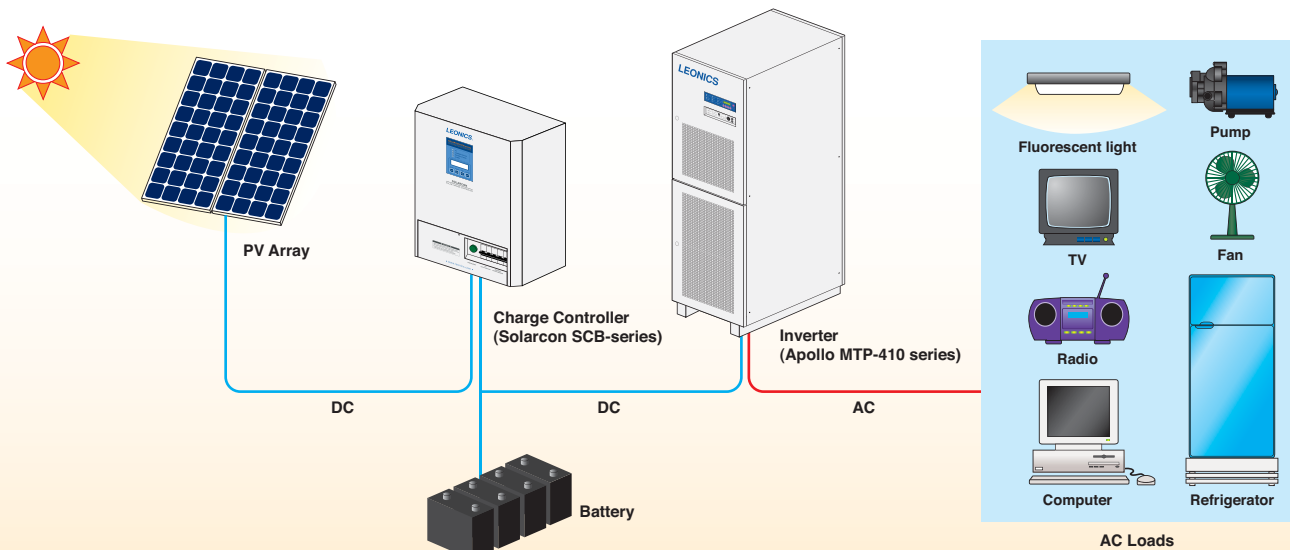
Wall mount type

- Over charge and over discharge protection
- Lightning surge protection
- Automatic cooling fan (outside enclosure)
- Comprehensive LED indication and LCD display
- Power and event data logger
- Wall mount or Rack mount 5U and 6U Case
- ISO 9001:2008 and ISO 14001 certified

- Advanced microprocessor control
- Maximum Power Point Tracking (MPPT)
- Buck regulator wide input range
- 3-step charging to provide quick and safe charging for battery
- Reverse PV polarity protection and battery reverse polarity alarm



Rack mount type



The SOLARCON SCB-series charger is the most sophisticated solar charger with PV Maximum Power Point Tracking (MPPT) algorithm. The charger equipped with advanced microprocessor control to get the maximum power from PV to charge battery with LCD display and front panel for easy and accurate setting more over the digital meter with 180 days power and event logger are inclusive.

SOLARCON SCB-series SOLAR CHARGE CONTROLLER WITH MPPT

SPECIFICATIONS

Wall Mount Model	SCB-2440	SCB-2480	SCB-24120	SCB-4840	SCB-4880	SCB-48120	SCB-12030	SCB-12060	SCB-12090
Rack Mount Model	SCB-2440/RM	SCB-2480/RM	SCB-24120/RM	SCB-4840/RM	SCB-4880/RM	SCB-48120/RM	SCB-12030/RM	SCB-12060/RM	SCB-120120/RM

INPUT (Configuration of PV in series within these voltage range)

V _{mp} of PV at STC	60 - 120 Vdc	150 - 250 Vdc
V _{oc} of PV at STC	≤ 150 Vdc	≤ 300 Vdc

OUTPUT (at 25°C)

Nominal battery voltage	24 Vdc	48 Vdc	120 Vdc
Boost charging voltage	26.0 - 30.0 Vdc (default = 30.0 Vdc)	52.0 - 60.0 Vdc (default = 60.0 Vdc)	130.0 - 150.0 Vdc (default = 150.0 Vdc)
Float charging voltage	24.0 - 28.0 Vdc (default = 27.6 Vdc)	48.0 - 56.0 Vdc (default = 55.2 Vdc)	120.0 - 140.0 Vdc (default = 138.0 Vdc)
Low voltage alarm	20.0 - 24.0 Vdc (default = 23.6 Vdc)	40.0 - 48.0 Vdc (default = 47.2 Vdc)	100.0 - 120.0 Vdc (default = 118.0 Vdc)
Low battery voltage disconnected	19.8 - 23.8 Vdc (default = 21.6 Vdc)	39.6 - 47.6 Vdc (default = 43.2 Vdc)	99.0 - 119.0 Vdc (default = 108.0 Vdc)
Reconnect voltage	23.0 - 27.0 Vdc (default = 25.0 Vdc)	46.0 - 54.0 Vdc (default = 50.0 Vdc)	115.0 - 135.0 Vdc (default = 125.0 Vdc)
Maximum charging current	40	80	120

BATTERY

Type	Deey cycle Lead Acid (LA)
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PROTECTION

Protection	PV Transient voltage surge, PV reverse polarity, High battery voltage, Low battery voltage. Over temperature, Overcharging
Alarm	PV reverse polarity, Battery reverse polarity

INDICATOR

LED	Battery Level, PV Voltage Level, Operation Status, Alarm
LCD	Digital meter, 180 days power and event logger

COMMUNICATION INTERFACE

RS-232	DB-9 connection
RS-485	operate with RS-485 adaptor (option)
Dry contact signal	Charger fail and low battery voltage disconnected

SYSTEM

Control	Automatic cooling fan, Maximum Power Point Tracking (MPPT)
Temp. compensation range	-5 to 7 mV / cell / celsius (option)

OPERATING CONDITION

Temperature	0 - 45°C
Relative humidity	0 - 95 % (non-condensing)

DIMENSION (W x H x D) (approximate in cm.)

Case Type	SCB-2440	SCB-2480	SCB-24120	SCB-4840	SCB-4880	SCB-48120	SCB-12030	SCB-12060	SCB-12090
Wall mounted case	42 x 53 x 24	TBA	TBA	42 x 53 x 24	TBA	TBA	42 x 53 x 24	TBA	TBA
Rack mount case	48.2 x 23.7 x 64.5 (5U)	48.2x28.2x64.5 (6U)	48.2 x 23.7 x 64.5 (5U)	48.2x28.2x64.5 (6U)	48.2 x 23.7 x 64.5 (5U)	48.2x28.2x64.5 (6U)	48.2 x 23.7 x 64.5 (5U)	48.2x28.2x64.5 (6U)	48.2x28.2x64.5 (6U)

WEIGHT (approximate in kg.)

Wall mounted case	depend on model
Rack mount case	depend on model

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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