

SOLARCON SCM

SOLAR CHARGE CONTROLLER WITH MPPT



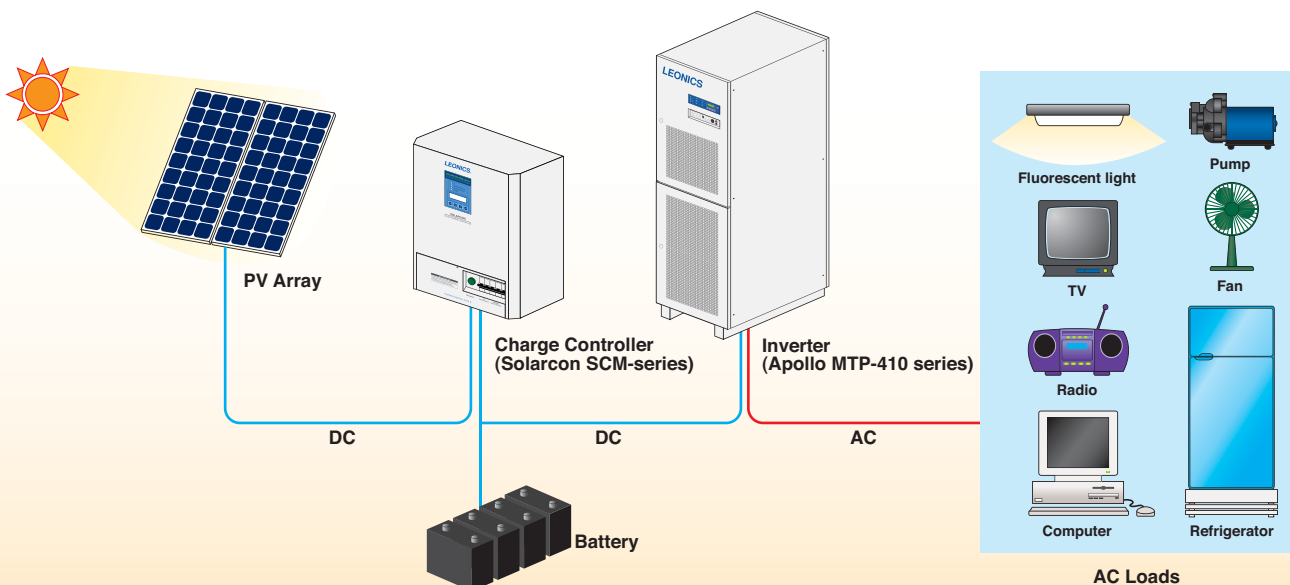
Wall mount type

- Reverse PV polarity protection and battery reverse polarity alarm
- Overload alarm and protection
- Over charge and over discharge protection
- Lightning surge protection
- 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)
- High efficiency > 98%
- Automatic ON-OFF
- Boost regulator wide input range
- 3-step charging to provide quick and safe charging for battery



Rack mount type



The SOLARCON SCM-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 SCM-series SOLAR CHARGE CONTROLLER WITH MPPT

SPECIFICATIONS

Wall Monut Model	SCM-12035	SCM-12070	SCM-120105	SCM-120140	SCM-24035	SCM-24070	SCM-240105	SCM-240140	SCM-480150	SCM-480200	
Rack Monut Model	SCM-12035/RM	SCM-12070/RM	SCM-120105/RM		SCM-24035/RM	SCM-24070/RM	SCM-240105/RM	SCM-240140/RM			
INPUT (Configuration of PV in series within these voltage range)											
Vmp of PV at STC	85 - 102 Vdc				170 - 204 Vdc				340 - 408 Vdc		
Tracking voltage range	48 - 102 Vdc				96 - 204 Vdc				192 - 408 Vdc		
Voc of PV at STC	< 138 Vdc				< 276 Vdc				< 552 Vdc		
Maximum current	35	70	105	140	35	70	105	140	150	200	
OUTPUT (at 25°C)											
Nominal battery voltage	120 Vdc				240 Vdc				480 Vdc		
Boost charging voltage	130.0 - 150.0 V				260.0 - 300.0 V				520.0 - 600.0 V		
Float charging voltage	120.0 - 140.0 V				240.0 - 280.0 V				480.0 - 560.0 V		
Low voltage alarm	100.0 - 120.0 V				200.0 - 240.0 V				400.0 - 480.0 V		
Low voltage cut off (signal)	99.0 - 119.0 V				198.0 - 238.0 V				396.0 - 476.0 V		
Reconnect voltage (signal)	115.0 - 135.0 V				230.0 - 270.0 V				460.0 - 540.0 V		
BATTERY											
Type	Deey cycle Lead Acid (LA)										
PROTECTION											
Protection	High battery voltage, Low battery voltage. Over temperature, Overcharging, PV reverse polarity										
Alarm	PV reverse polarity, Battery reverse polarity										
INDICATION											
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.)											
Tower case	TBA				TBA				60 x 210 x 80		
Wall mounted case	42 x 53 x 24		TBA		42 x 53 x 24		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)		48.2 x 28.2 x 64.5 (6U)		TBA		
WEIGHT (approximate in kg.)											
Tower case	depend on model										
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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