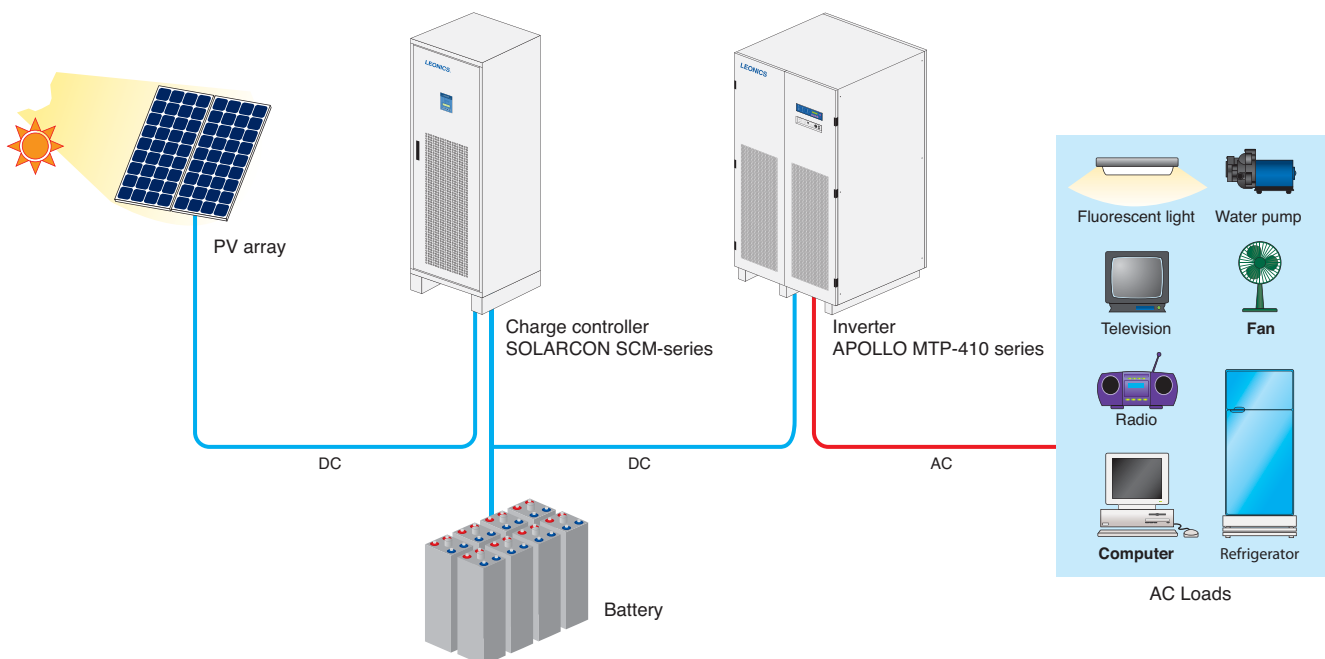


## SOLARCON SCM

### MPPT Charge Controller



- Advanced microprocessor control
- Maximum Power Point Tracking (MPPT)
- Boost regulator wide input range
- Automatic ON-OFF
- 3-step charging to provide quick and safe charging for battery
- Compatible with sealed lead acid (default), lead acid, Li-Ion (NMC, LFP) and SoNick batteries
- Battery reverse polarity alarm
- 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
- Reverse PV polarity protection and alarm (option)
- 2 years warranty (option for 3 and 5 years)
- ISO 9001, ISO 14001 and ISO 45001 certified factory



The SOLARCON SCM-series charge controller is the most sophisticated solar charger with PV Maximum Power Point Tracking (MPPT) algorithm. The charge controller 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 MPPT Charge Controller

### SPECIFICATIONS

Model	SCM-720160	SCM-720240	SCM-720320
INPUT (Configuration of PV in series within these voltage range)			
V <sub>mp</sub> of PV*	510 - 660 Vdc		
Tracking voltage range	288 - 660 Vdc		
V <sub>oc</sub> of PV*	< 785Vdc		
Maximum current	160 A	240 A	320 A
Maximum PV power**	96.8 kWp	145 kWp	180 kWp
OUTPUT (at 25°C)			
Nominal battery voltage	720 Vdc		
Boost charging voltage	780.0 - 900.0 Vdc		
Float charging voltage	720.0 - 840.0 Vdc		
Low voltage alarm	600.0 - 720.0 Vdc		
Low voltage cut off (signal)	594.0 - 714.0 Vdc		
Reconnect voltage (signal)	690.0 - 810.0 Vdc		
BATTERY			
Type	Sealed lead acid (VRLA) (default), Deep cycle lead acid (LA), Li-Ion (NMC, LFP), SoNick		
EFFICIENCY			
Charger peak efficiency	> 98%		
PROTECTION			
Protection	PV transient voltage surge, High battery voltage, Low battery voltage, Over temperature, Over charging		
Alarm	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 connector		
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)		
ENVIRONMENT			
Temperature	0 - 45°C		
Relative humidity	0 - 95% (non-condensing)		
Pollution degree classification	II		
Max. operation altitude	2,000 m / 6,560 feet (without derating)		
DESIGN REGULATION			
Standard	IEC 61683, IEC 62109-1		
Ingress protection	IP30 (IP31 is optional)		
Protective class	I		
Overvoltage category	II (input and output) (in accordance with IEC 62109-1)		
DIMENSION (W x H x D) (approximate in cm.)			
Tower case	60 x 210 x 83.5 cm		70 x 210 x 83.5 cm
WEIGHT (approximate in kg.)			
Tower case	400 kg	420 kg	537 kg

\*The V<sub>mp</sub> and V<sub>oc</sub> used for configuration must be considered with temperature coefficient effected by environment at each install location.

\*\*For operation of charge controller at ambient temperature  $\pm$  25°C. The peak PV power must be derated 15% when charge controller operates at ambient temperature over than 25°C. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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