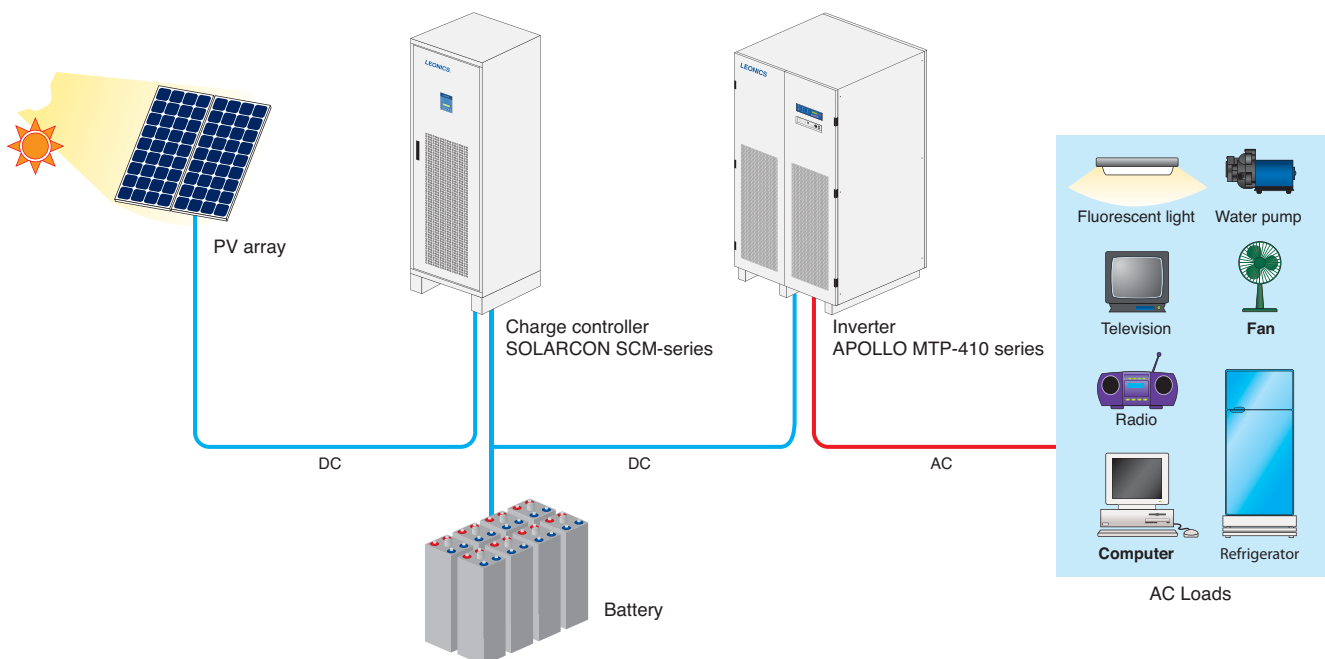


SOLARCON SCM

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 _{mp} of PV*	510 - 660 Vdc			
Tracking voltage range	288 - 660 Vdc			
V _{oc} 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_{mp} and V_{oc} used for configuration must be considered with temperature coefficient effected by environment at each install location.

**For operation of charge controller at ambient temperature ≤ 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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