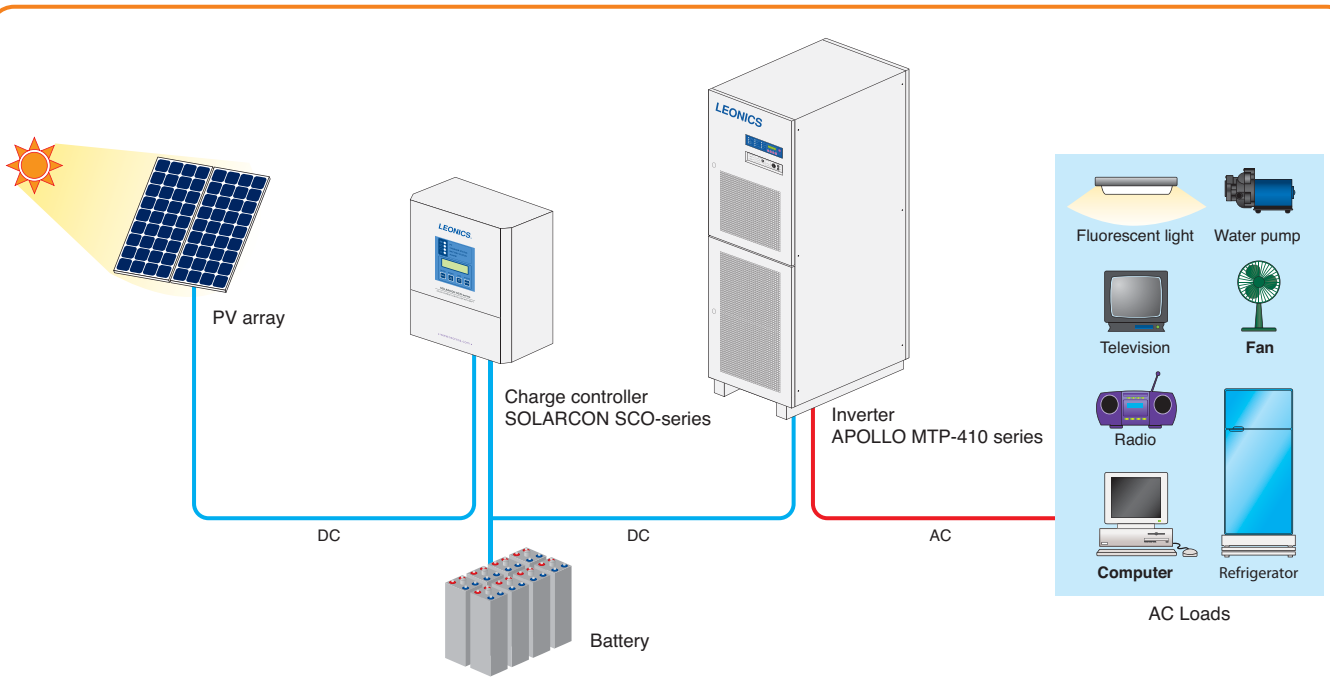
LEONICS®

SOLARCON SCO

MPPT Charge Controller

- Advanced microprocessor control
- Maximum Power Point Tracking (MPPT)
- Buck regulator wide input range
- 3-step charging to provide quick and safe charging for battery
- Design for using with lead acid and Lithium-ion batteries
- PV and battery reverse polarity protection
- Over charge and over discharge protection
- Lightning surge protection
- PV ground fault protection (option)
- Automatic cooling fan (outside enclosure)
- Comprehensive LED indication and LCD display
- Power and event data logger
- IP31 protection enclosure
- 2 years warranty (option for 3 and 5 years)
- ISO 9001 and ISO 14001 certified factory



The SOLARCON SCO-series charge controller is the most sophisticate 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.

AC Solar Power System

LEONICS®

SOLARCON SCO-series MPPT Charge Controller

SPECIFICATIONS

Model	SCO-4860	SCO-4880	SCO-48120
INPUT (Configuration of PV in series within these voltage range)			
V_{mp} of PV*	64 - 116 Vdc		
V_{oc} of PV*	≤ 145 Vdc		
Maximum PV power**	3.3 kWp	4.4 kWp	6.6 kWp
OUTPUT (at 25°C)			
Nominal battery voltage	48 Vdc		
Boost charging voltage	52.0 - 60.0 Vdc (default = 60.0 Vdc)		
Float charging voltage	48.0 - 56.0 Vdc (default = 55.2 Vdc)		
Voltage regulation	± 0.5 V (steady load)		
Low voltage alarm	40.0 - 48.0 Vdc (default = 47.2 Vdc)		
Low battery voltage disconnected	39.6 - 47.6 Vdc (default = 43.2 Vdc)		
Reconnect voltage	46.0 - 54.0 Vdc (default = 50.0 Vdc)		
Maximum charging current	60 A	80 A	120 A
BATTERY			
Type	Deep cycle lead acid (LA) and Lithium-ion (Li-ion)		
EFFICIENCY			
Charger peak efficiency	> 98%		
PROTECTION			
Protection	PV transient voltage surge, PV and battery reverse polarity, High battery voltage, Low battery voltage, Over temperature, Over charge and discharge, PV ground fault (option)		
INDICATOR			
LED	Battery level, PV voltage level, Operation status, Alarm		
LCD	Digital meter, 180 days power and event logger		
COMMUNICATION INTERFACE			
Selectable by setting	RS-232 (default) or RS-485		
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.)			
Wall mount case	23 x 31 x 16 cm		32.3 x 42 x 16 cm
WEIGHT (approximate in kg.)			
Wall mount case	7.2 kg	7.6 kg	12.2 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
LEO ELECTRONICS CO.,LTD.
27, 29 Soi Bangna-Trad Rd 34, Bangna, Bangna, Bangkok 10260 THAILAND
Tel. 0-2746-9500, 0-2746-8708 Fax. 0-2746-8712 e-mail : RNE@leonics.com
▪ www.leonics.com ▪

Authorized Dealer