LEONICS®

SOLARCON SCB

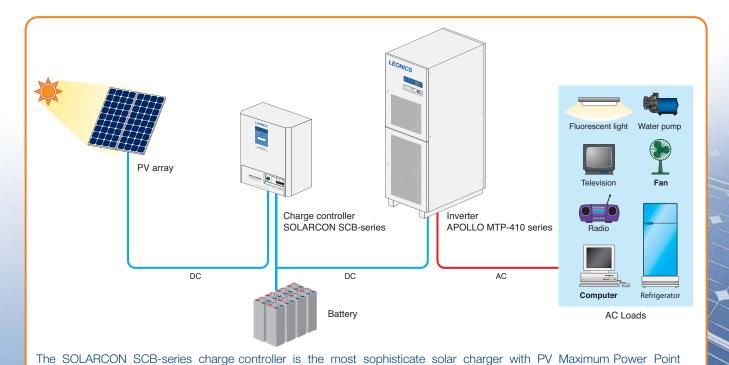
MPPT Charge Controller



- Maximum Power Point Tracking (MPPT)
- Buck regulator wide input range
- 3-step charging to provide quick and safe charging for battery
- 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
- PV ground fault detection/protection (option)
- Reverse PV polarity protection and alarm (option)
- IP31 protection enclosure
- Wall mount or Rack mount 5U and 6U Case
- 2 years warranty (option for 3 and 5 years)
- ISO 9001 and ISO 14001 certified factory







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.







SPECIFICATIONS

Wall Mount Model	SCB-2440	SCB-2480	SCB-24120	SCB-4860(L)	SCB-48120(L)	SCB-12030	SCB-12060	SCB-12090					
Rack Mount Model	SCB-2440/RM	SCB-2480/RN	SCB-24120/RM	SCB-4860(L)/RM	SCB-48120(L)/RM	SCB-12030/RM	SCB-12060/RM	SCB-12090/RM	SCB-240105/RN	SCB-240140RM	SCB-240200/RM	SCB-240320/F	
INPUT (Configuration of PV in	n series within thes	se voltage range)											
V _{mp} of PV*	35 - 74 Vdc			64 - 116 Vdc		154 - 232 Vdc			308 - 400 Vdc				
V _{oc} of PV*	≤ 90 Vdc			≤ 145 Vdc		≤ 290 Vdc			≤ 500 Vdc				
Maximum PV power**	1.1 kWp	2.2 kWp	3.3 kWp	3.3 kWp	6.6 kWp	4.13 kWp	8.26 kWp	12.4 kWp	28.9 kWp	38.5 kWp	55 kWp	88 kWp	
OUTPUT (at 25°C)													
Nominal battery voltage	24 Vdc			48 Vdc		120 Vdc			240 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)			260.0 - 300.0 Vdc (default = 300.0 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)			240.0 - 280.0 Vdc (default = 276.0 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)			200.0 - 240.0 Vdc (default = 236.0 Vdc)				
Low battery voltage	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)			198.0 - 238.0 Vdc (default = 216.0 Vdc)				
disconnected													
Reconnect voltage	23.0 - 27.0 Vdc (default = 25.0 Vdc)			46.0-54.0 Vdc (d	efault = 50.0 Vdc)	115.0 - 135.0 Vdc (default = 125.0 Vdc)		125.0 Vdc)	230.0 - 270.0 Vdc (default = 250.0 Vdc)			,	
Maximum charging current	40 A	80 A	120 A	60 A	120 A	30 A	60 A	90 A	105 A	140 A	200 A	320 A	
BATTERY													
Гуре	Deep cycle lead acid (LA)												
FFICIENCY													
Charger peak efficiency						> !	98%						
PROTECTION													
Protection	PV transient voltage surge, High battery voltage, Low battery voltage, Over temperature, Over charging												
Marm						Battery rev	erse polarity						
NDICATOR													
.ED	Battery level, PV voltage level, Operation status, Alarm												
_CD					Digita	al meter, 180 days	power and event I	ogger					
COMMUNICATION INTERFA	CE												
RS-232							onnector						
RS-485	operate with RS-485 adaptor (option)												
Ory contact signal					Charg	er fail and low bat	tery voltage discon	nected					
SYSTEM													
Control	Automatic cooling fan, Maximum Power Point Tracking (MPPT)												
Temp. compensation range						-5 to 7 mV / cel	I / celsius (option)						
OPERATING CONDITION													
emperature		0 - 45°C											
Relative humidity						0 - 95% (no	n-condensing)						
IMENSION (W x H x D) (ap													
Vall mount case			50 x 64 x 26.6			42 x 53 x 24		50 x 64 x 26.6					
Rack mount case	48.2 x 22.2 x 64.5 (5U) 48.2x28.2x6		48.2x28.2x64.5(6U)	48.2x22.2x64.5(5U)	48.2x28.2x64.5(6U)	48.2 x 22.2 x 64.5 (5U)		48.2 x 28.2 x 64.5 (6U)		6U)	43 x 35 x 85 (8U)		
VEIGHT (approximate in kg.)													
	40	25	35	20	22.5	23	23	40			_		
Wall mount case	10	25	30	20	23.5	24	25	10					

^{*}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 \leq 25°C. The peak PV power must be derated 15% when charge controller operates at ambient temperature over than 25°C. ***For SOLARCON SCB-XXXX(L) model, it has only input and output terminal blocks. ****For SOLARCON SCB-240200RM and SCB-240320RM, it will not provide the circuit breaker on the unit. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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