

SCM Series Solar Controller



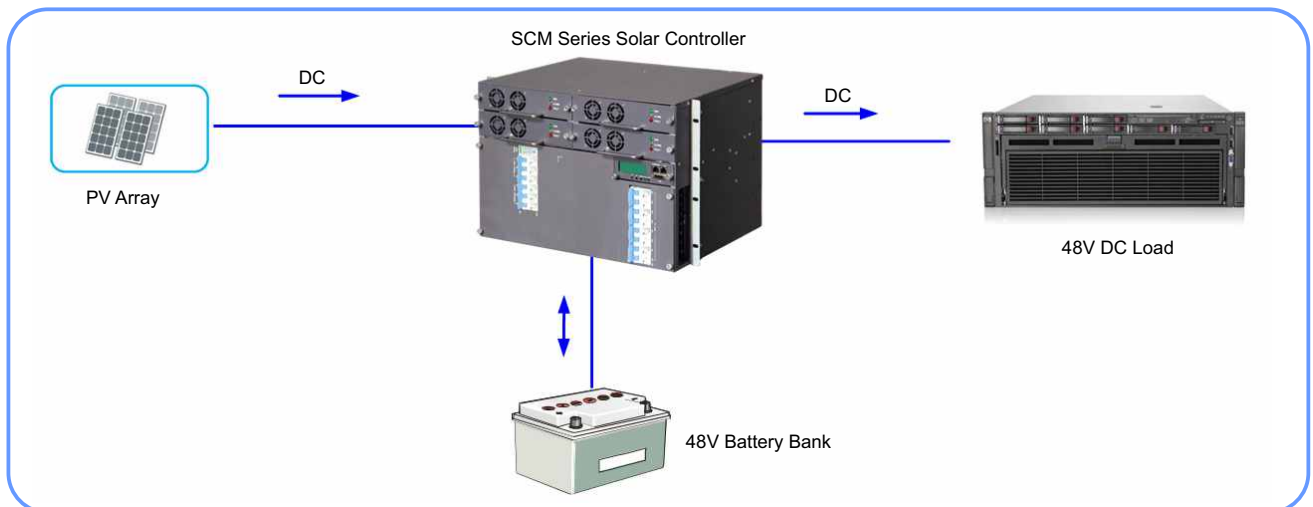
SCM48100, SCM48200, SCM300

Features

- Standard 19 inch frame modulars design to extend easily
- Built-in MPPT solar controller, maximize the utilization of solar panels
- Advanced circuit topology design, efficiency up to 95%
- Intelligent battery management, oil machine management and power supply system monitoring functions
- Monitoring unit configuration, realize the analog detection, status report and control of the system, RS485/RS232 communication
- All the external interfaces and connection cables support pre-wiring

Description

- SCM series solar controller covers SCM48100 to SCM48300 or bigger, standard 19 inch frame design and can embed in 19 inch cabinet. The controller adopts MPPT technology and maximizes the utilization of solar panels; System sampling advanced circuit topology design brings ultra-high power conversion efficiency of equipment, system efficiency up to 95%, reducing energy loss process. Meanwhile it has intelligent battery management, monitoring alarm and DC distribution functions. The device meets the maintenance requirement, the control module and monitoring module are all modular design.
- The device is applied in BTS solar system and common off-grid solar system.



Technical data

Model	SCM48100	SCM48200	SCM48300
Input			
System rated power (kW)	5	10	15
Moudle rated power (kW)	2.5		
Moudle model	SCM4850		
Number of input module	2 (1~2 moudle optional)	4 (1~4 moudle optional)	6 (1~6 moudle optional)
Moudle max. input power (kW)	2.63		
Moudle max. input current (A)	45		
MPPT operating range (VDC)	70~200		
Max. input voltage (V)	250		
Recommended working voltage [Vmpp (VDC)]	150		
Moudle weight (kg)	2.5		
Output			
Battery voltage/range (VDC)	48/43.2~57.6		
Rated current (A)	100A	200A	300A
General parameters			
System efficiency	≥95.0%		
MPPT efficiency	>99.50%		
Standby power loss (W)	≤30		
Noise emission [dB(A)]	≤60		
Cooling method	Forced air cooling		
Ingress protection rating	IP20		
Communication	RS485, RS232		
Display	LCD+LED display		
Storage capacity	Up to 200 alarm record		
Operating temperature range (°C)	-20~55		
Storage temperature range (°C)	-40~70		
Relative humidity in operation	0~95% (non-condensing)		
Max. operating altitude (M)	5000m (>2000m derating)		
Dimension(D*W*H mm)	313*483*222	328*483*310	328*483*335
Weight (kg)	20	30	45

Data may change without any notice.