



PV Controller

SPC048 Series

- » MPPT function, high efficiency
- » Modular design, easy for expansion
- » Integrated power distribution

Excellent Performance:

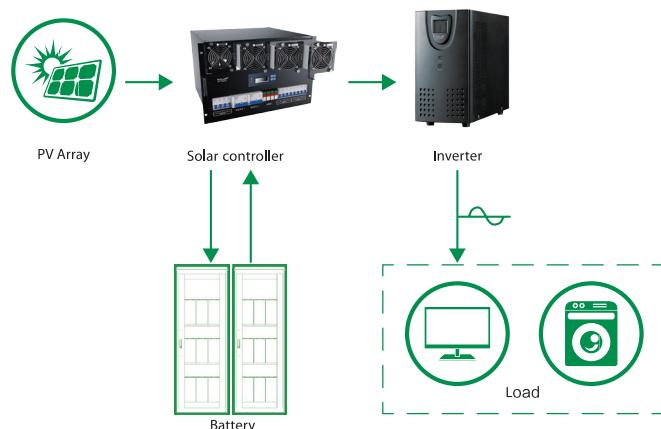
- Full DSP control technology
- MPPT function, maximize the utilization of solar panels
- Low power dissipation, zero night-time dissipation
- Wide input range, flexible solar panel configuration
- Wide working temperature range

High Reliability:

- Modular design, flexible expansion and easy maintenance
- Full alarm and protection function
- Load prioritize shut down control function
- PCB boards feature with anti-corrosion paint coating

Smart Management:

- RS485/RS232 communication, easy monitoring
- Full dry contact communication function
- Intelligent battery charging control, extend the battery lifetime



MPPT controller Specification:

	SPC048100-M	SPC048150-M	SPC048200-M
MPPT module capacity	50A MPPT module×2	50A MPPT module×3	50A MPPT module×4
PV input (switch)	2 strings (63A x 2)	3 strings (63A x 3)	4 strings (63A x 4)
PV input current	Max.2 x 40A	Max.3 x 40A	Max.4 x 40A
PV input voltage range	50V ~ 150V		
Battery strings (switch)	2 strings x 100A (detect total current)		
Output strings (switch)	Critical load: 4 strings (63 A+50 A +32 A +20 A) subordinate load: 44 strings (63 A+50 A +32 A +20 A)		
output voltage	44.0 Vdc~58.0 Vdc, typical value: 54.0 Vdc		
MPPT controller output current	Max.100A	Max.150A	Max.200A
Efficiency	≥95%	≥95%	≥95%
IP grade	IP20		
Working temperature	-20°C ~ 55°C (more than 40°C, derating)		
Storage temperature	-40°C ~ 70°C		
Relative humidity	5% ~ 95%		
Altitude	<5500m, (more than 3000m,derating)		
Dimension (W*D*H)	487 x 426.3 x 352.5 (mm)		

MPPT module Specification:

Item	Specification
Capacity	50A
Input voltage range	50~150Vdc (Max. open circuit voltage:150Vdc)
Input current	Max. 40A
Output voltage range	44.0Vdc~58.0Vdc, typical value :54V
Output current	Max. 50A
MPPT tracking accuracy	>99%
Max. efficiency	≥95%
Stand-by power consumption	<5W
Cooling	Forced air cooling
Noise	<60dB
Installation	Install slot, hot swappable
IP grade	IP20
Working temperature	-20°C ~ 55°C
Storage temperature	-40°C ~ 70°C
Relative humidity	5% ~ 95%
Altitude	<5500m, (more than 3000m,derating)
Dimension (W x D x H)	108.5 x 362.8 x 111(mm)

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