

SMP Series [MPPT Solar Controller]

30 / 40 / 60 / 100A 12 / 24 / 48V System (PV 150Vdc)



MPPT SOLAR CONTROLLER



MODEL		SMP-4830	SMP-4840	SMP-4860	SMP-48100
charging mode	/	MPPT automatic maximum power point tracking			
charging method	/	Three stages:constant current charging(MPPT),Equalizing charging,float charging			
system type	12V/24V/48V	Automatical recognition/Manual setting			
System identification voltage range	12V system	DC8V-DC16V			
	24V system	DC16V-DC32V			
	48V system	DC32V-DC64V			
Quiescent dissipation	12V/24V/48V	≤5W			
Max conversion efficiency	12V/24V/48V	≥95.5%			
Photovoltaic module utilization ratio	12V/24V/48V	≤99.9%			
Input Characteristics					
Mppt working voltage range	12V system	DC18V-DC150V			
	24V system	DC36V-DC150V			
	48V system	DC72V-DC150V			
Maximum photovoltaic input power	12V system	450W	600W	900W	1500W
	24V system	850W	1200W	1700W	2900W
	48V system	1700W	2300W	3400W	5700W
Output Characteristics					
Optional battery type (default lead-acid)	/	Lead acid battery,LiFePo 4 battery , Ternary lithium battery or Use-Defined			
Rated current	12V/24V/48V	30A	40A	60A	100A
Protection					
Input low voltage protection	12V system	DC14V			
	24V system	DC28V			
	48V system	DC32V			
Input low voltage recovery (Lead-acid battery)	12V system	DC16V			
	24V system	DC32V			
	48V system	DC64V			
Input over-voltage protection	12V/24V/48V	DC180V			
Input over-voltage recovery	12V/24V/48V	DC170V			
Input polarity reverse protection	/	YES			
Output polarity reverse protection	/	YES			
High temperature protection	/	70°C			
Audible noise	/	≤50dB			
Heat dissipation mode	/	fan cooling			
Protective level	/	Ip21			
Environmental requirements					
Humidity	/	0~90%RH			
height above sea level	/	0~3000m			
Ambient temperature	/	-20°C~+40°C			
storage temperature	/	-40°C~+70°C			