



Solar Controller

SOLAR ENERGY SOLUTION

Model	CPF5048	CPF6048
Solar Input		
Max input voltage	50V	
Rated input current	50A	60A
Charge loop voltage drop	≤0.25V	
Battery		
System Voltage	48V	
No Load loss	≤16mA	
Battery Type	Sealed, GEL, Flooded, User customized	
Charging Mode	4 stages (Bulk, Absorption, Float, Equalized), PWM	
Float charge voltage	13.8V (13V-15V) x1/x2/x4	
Absorption charge voltage	14.4V (13V-15V) x1/x2/x4	
Temperature compensation	-4mV/Cell/°C	
Load		
Rated load current	50A	60A
Discharge loop drop	≤0.12V	
Low voltage disconnect	10.8V (10V-14V) x1/x2/x4	
Low voltage reconnect	12.6V (10V-14V) x1/x2/x4	
Over voltage disconnect	16.0Vx1/x2/x4	
MPPT efficiency		
Protection		
Over charge	yes	yes
Over discharge	yes	yes
Over temperature and over load	yes	yes
Automatic electronic fuse	yes	yes
Short circuit of load and PV	yes	yes
Input over voltage	yes	yes
Reverse current at night	yes	yes
Reverse connection of PV, load and battery	yes	yes
USB overheat and short circuit	yes	yes
Features		
PWM charging mode with 4 stages(bulk, absorption, float and equalized)		
Automatic detection of voltage		
Automatic load reconnection		
Automatic temperature compensation		
Simple button operation		
Adaptable to Sealed, Gel, Flooded and other customized battery type		
Preset parameters for charging and discharging(Special parameters can be customized)		
Allworking parameters can be adjusted and reset		
Various controlling mode for load		
General Data		
Max wire size	25mm ² (AMG 3#)	
Working temperature	-20-55°C	
Working humidity	10%-90% no condensation	
Dimension (LxWxH)	188mmx133mmx51.5mm	188mmx133mmx59mm
Net weight	600g	740g