



Solar Controller

SOLAR ENERGY SOLUTION

Model	CPF8048	CPF10048
Solar Input		
Max input voltage	≤100V	≤100V
Rated input current	80A	100A
Charge loop voltage drop	≤0.3V	
Battery		
System Voltage	48V	
No Load loss	≤13mA	
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	80A	100A
Discharge loop drop	≤0.16V	
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		
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		
Features		
PWM control		
Mutistage charging technology (bulk, absorption, float and equalized)		
Most parameters displayed explicitly		
Automatic detection of battery 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)		
All working parameters can be adjusted and reset		
Various controlling mode for load		
Self-timing		
Remote communication function (optional) --- RJ45 connection port, RS232, RS485 and standard Modbus communication protocol		
General Data		
Max wire size	25mm ² (AMG 3#)	
Working temperature	-20-55°C	
Working humidity	10%-90% no condensation	
Dimension (LxWxH)	220mmx133mmx77.5mm	220mmx133mmx77.5mm
Net weight	1.34kg	1.34kg