



## SOLAR CHARGING CONTROLLER

### MPPT Controller



#### Product introduction:

MPPT series photovoltaic controller is a high-performance step-down solar power generation equipment, which adopts MPPT algorithm to make full use of solar photovoltaic energy. The PV input voltage range is wide, which can charge a variety of batteries, and the three-stage charging effectively improves the life of the battery. The modular design of the controller allows multiple units to be used in parallel, allowing customers to configure freely and flexibly.

#### Performance characteristics

Memory function, save the settings, date and time, power generation etc function

Charging mode: three-stage charging (constant current, constant voltage, float), effectively extending the battery life

LCD and LED display various parameters, such as model, PV input voltage, the battery type, charging voltage, charging current, charging power, working condition etc

Photovoltaic input adopts MPPT tracking technology

Can be operated in parallel, expanding the range of use and meeting the charging requirements under high power

Available for communication power supply field

Model	PSM48	PSM96
Rated voltage (VDC)	48	96
Over voltage protection point (VDC)	62	124
Over voltage resumption point (VDC)	60	120
Float voltage (VDC)	54	108
Bulk voltage (VDC)	56.8	113.6
Maximum charging current (A)	60/120	(50/100)/(150/200)
Charging mode	Three-stage; constant current (MPPT), constant voltage, float	
Maximum input power (kWp)	3.4/6.8	5.7/11.4/17.1/22.8
Starting voltage (VDC)	60	120
MPPT voltage range (VDC)	50-150	110-280
Maximum open-circuit voltage(VDC)	170	300
Maximum efficiency	>98%	
MPPT efficiency	>99%	
Noise (dB)	<55	
Display	LCD+LED	
Communication	RS485(optional)	
Working temperature (°C)	-10~+40	
Humidity	0~95% (Non-condensing)	
Altitude(m)	≤5000m, above 1000m derating	
Protection level	IP20	
Dimension (D*W*H) mm	225*475*640(Wall-mounted type)	(225*475*640)/(530*530*1150) (vertical)
Weight (KG)	13-16	13-50
Protection	PV array reverse polarity protection; reverse battery protection; battery overcharge protection over-discharge protection; output overload protection; output short circuit protection	