

# MPPT7 SERIES

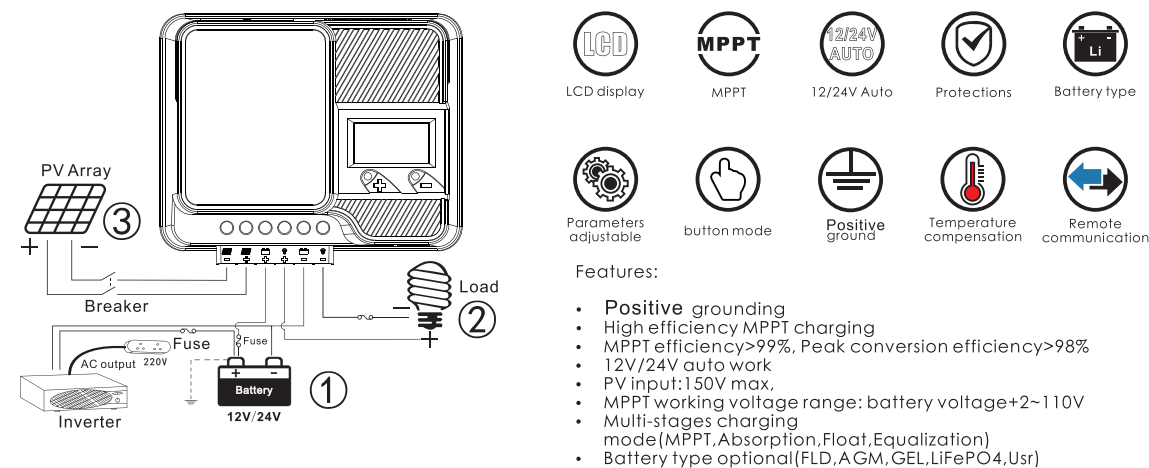
## MAXIMUM POWER POINT TRACKING SOLAR CHARGE CONTROLLER

20A/30A/40A 12V/24V



### Positive Grounding

MPPT7 series solar charge controller is Multi-stage Maximum Power Point Tracking (MPPT) photovoltaic battery charge controller with our own technology. It's main topology adopts in Buck conversion circuit, and uses MCU to adjust the solar panels working point intelligently in order to make the solar panels output is maximum power. When the circumstances change, the working point of solar panels deviate from the maximum power point, MCU will adjust the solar panels working point based on MPPT calculation to make the solar panels back to the maximum power point again. Compared with PWM controller, MPPT can increase the output power of solar panels by 5%-30%. The output power increasing proportion is affected by the factors such as solar panel property, humidity and light intensity. The controller uses wall-mount installing. Terminals enlarge the wiring area and reduce line loss.



Off-grid home solar system



RV, boat & field power supply solar system



Street lighting system

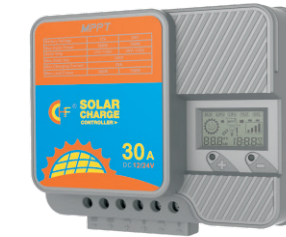
### MPPT7 SERIES CONTROLLER



**Model: MPPT720D**

Rated Voltage:12/24V Auto  
Rated Charge/Discharge Current:20A

Packing:20pcs/carton  
Carton size:395×295×310(mm)  
Gross weight:19Kg



**Model: MPPT730D**

Rated Voltage:12/24V Auto  
Rated Charge/Discharge Current:30A

Packing:14pcs/carton  
Carton size:547×435×170(mm)  
Gross weight:20Kg



**Model: MPPT740D**

Rated Voltage:12/24V Auto  
Rated Charge/Discharge Current:40A

Packing:14pcs/carton  
Carton size:518×477×185(mm)  
Gross weight:19.5Kg

Model	MPPT720D	MPPT730D	MPPT740D	MPPT7148	MPPT7248	MPPT7348
System voltage	12V/24V AUTO			12V/24V/36V/48V AUTO		
Battery voltage range	9-32V			9-64V		
Max charging current	20A	30A	40A	10A	20A	30A
Max PV open-circuit voltage	150V,(Min working temperature), MPPT working voltage range:(battery voltage+2~110V)					
Battery type	User,Flooded,AGM,GEL,LiFePO4 Lithium					
Equalization charge	SLD:14.6V, GEL:null, FLD:14.8V					
Absorption charge	SLD:14.4V, GEL:14.2V, FLD:14.6V					
Floating charge	GEL,SLD,FLD:13.8V					
Low voltage disconnection	GEL,SLD,FLD:10.8V					
Low voltage reconnection	GEL,SLD,FLD:12.6V					
No load consumption	≤40mA					
High voltage disconnection	16V					
Equalization charge time	2hours					
Absorption charge time	2hours					
Light control voltage	5V					
Temperature compensation	-4mV/cell/°C					
Charge loop voltage drop	≤0.29V					
Discharge loop voltage drop	≤0.16V					
LCD screen temperature range	-20~+70°C					
Working temperature	-20~+55°C					
Storage temperature	-30~+80°C					
Humidity	no condensation					
Grounding	Positive grounding					
Communication mode	RS485,RJ45port					