

# MPPT Solar Charge Controller

MC2420N10/MC2430N10/MC2440N10/MC2450N10



## Product characteristics

- 10-40% higher than PWM mode.
- MPPT tracking efficiency is up to 99.9%.
- Full-range electronic protection functions.
- Built-in temperature detection.
- Modbus protocol.
- Lead-acid batteries/lithium batteries.
- 12/24V identification.
- Current-limiting charging mode.
- Historical data storage.

## Product accessories

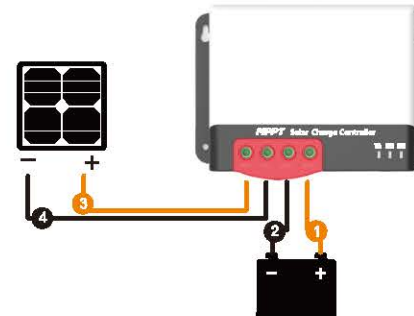
RM-6 display, BT-2 Bluetooth module, USB to TTL cable, BTS temperature sensor.



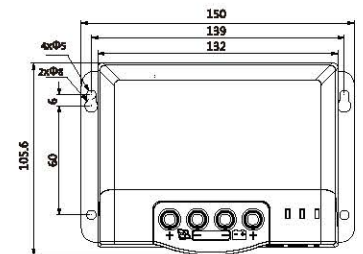
## Parameters

Model	MC2420N10	MC2430N10	MC2440N10	MC2450N10
System voltage	12V/24V			
Static power consumption	0.12W			
Maximum input voltage of solar energy (25°C)	100V			
Voltage Range at MPPT (Maximum Power Point)	Battery voltage +2~ 75V			
Charging current	20A	30A	40A	50A
Solarpanel power (12V battery)	260W	400W	520W	660W
Solarpanel power (24V battery)	520W	800W	1040W	1320W
Support battery type	AGM Battery, GEL Battery, Flooded Battery, Lithium Battery			
Temperature compensation coefficient	-3mV/°C/2V			
Operating temperature range	-35°C~60°C			
Humidity	95%, no condensation			
Protection grade	IP32			
Weight	650g	830g	1040g	1335g
Communication mode	TTL(3.3V)			
Product Dimensions	150×156×62(mm)	150×156×68(mm)	183×127×66(mm)	183×127×70(mm)
Terminal blocks	10mm <sup>2</sup> /8AWG			
Functional authentication	IEC62509 : 2010			

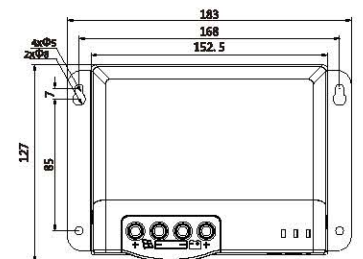
## Product connection diagram



## Technical requirements



MC2420N10



MC2440N10