

Features:

- ※ Advanced double-peak or multiple-peak tracking technology. When the panel has a shadow block or a part of the panel is damaged, I-V curve shows multiple peaks.
- ※ Built-in algorithm for maximum power tracking. This significantly raises energy utilization efficiency of photovoltaic systems, with charging efficiency 15% ~ 20% higher than traditional PWM solar charge controllers.
- ※ MPPT tracking efficiency can be as high as 99.9%.
- ※ Advanced digital power technology, with circuit energy conversion efficiency as high as 98%.
- ※ Current-limiting charging mode. When the power of a solar panel is too large, and the charging current is greater than rated current, the solar charge controller automatically reduces charging power, thereby making the solar panel
- ※ Supporting standard Modbus protocol that meets communication needs on different occasions.
- ※ Built-in mechanism of over-temperature protection. When the temperature exceeds the preset value, the charging current falls linearly with temperature, therefore slowing down the rise of controller temperature and avoiding controller damage from high temperature.
- ※ Temperature compensation functions. Charging and discharging parameters are automatically adjusted, thereby extending battery service life.



Specification	CMC4820	CMC4830
System Voltage	12V/24V/36V/48V Auto	12V/24V/36V/48V Auto
No-Load Loss	0.7~1.2W	0.7~1.2W
Battery Voltage	9~70	9~70
Max Solar Energy Input Voltage	<150V	<150V
Max Power Point Voltage Scope	Battery Voltage +2V ~ 120V	Battery Voltage +2V ~ 120V
Rated Charging Current	20A	30A
Rated Load Current	10A	20A
Max capacitive load capacity	10000uF	10000uF
PV System Max Input Power	400W/12V	400W/12V
	800W/24V	800W/24V
	1200W/36V	1200W/36V
	1600W/48V	1600W/48V
Conversion Efficiency	≤98%	≤98%
MPPT Tracking Efficiency	>99%	>99%
Temperature compensation coefficient	-3mv/°C/2V（Default）	-3mv/°C/2V（Default）
Working Temperature	-35℃ ~ +45℃	-35℃ ~ +45℃
Protection Level	IP32	IP32
Weight	2.3kg	2.3kg
Max Wiring Size	25 mm2	25 mm2
Communication Mode	RS485, RS232	RS485, RS232
Altitude	≤ 3000m	≤ 3000m
Product Size	266*182*81mm	266*182*81mm