CM MPPT Solar Charging Controller

30A/40A/50A/60A/80A/100A

MAIN FEATURES

- Excellent heat dissipation design and intelligent controlled
- Innovative maximum power point tracking technology,the conversion rate of up to 97%
- Quick scan of the entire I-V curve.Efficient track the maximum power point
- Three types of lead-acid battery,sealed,colloid,open type battery and lithiumbattery series charging procedures are optional
- With the functions of over charge,over discharge,overload and short circuitautomatic protection
- With RS485 communicate interface.It can communicate with multiple and the uppercomputers,which is convenient to check the operating parameters of the controller

Product Specifications

Model			CM-30A	CM-40A	CM-50A	CM-60A	CM-80A	CM-100A
Charging Mode			MPPT Automatic Maximum Power Point Tracking					
Charging Method			Three stages:Constant Current (MPPT), Balanced Charging, Floating Charge					
System Type	12/24/48V		Automatic Identification/Manual Setting					
System Identification Voltage Range	12V System		9~15VDC					
	24V System		18~30VDC					
	48V System		36~60VDC					
Soft Start Time	12/24/48V		≤10s					
Dynamic Response Recovery Time	12/24/48V		≤500us					
Static Power	12/24/48V		≤2W					
Machine Efficiency	12/24/48V		≥96.5%					
PV Module Utilization	12/24/48V		≤99%					
Input Characteristics	MPPT Operating Voltag Range	12V System	18~150VDC					
		24V System	34~150VDC					
		48V System	65~150VDC					
	Maximum Solar Panel Input Power	12V System	420W	570W	700W	900W	1100W	1350W
		24V System	840W	1130W	1400W	1700W	2200W	2750W
		48V System	1650W	2270W	2800W	3400W	4400W	5400W
Output Characteristics	Optional Battery Type(Default is lead-acid maintenance-free battery)	12/24/48V	Lead-acid maintenance-free Battery,Gel Battery,Lithium Battery (Can also be customized for other types of battery)					
	Current Limiting Protection	12/24/48V	32A	42A	52A	62A	82A	102A
	Temperature Accuracy	12/24/48V	±0.02%/°C					
	Temperature Compensation	12/24/48V	14.2V-(Maximum Temperature -25°C)*0.3					
	Output Regulation Accuracy	12/24/48V	≤±15%					
Protection	Input Low Voltage Protection		Reference Input Characteristics					
	Input High Voltage Protection		Reference Input Characteristics					
	Short Circuit Protection		After 5 trial starts will enter the protection state,Restart Recovery					
	Temperature Protection		90°C					
	Temperature Rise Protection		Reduce Power Output When Exceed 85°C					
Other Parameters	Noise		≤50dB					
	Heat Dissipation Method		Forced air cooling,fan speed is adjusted by temperature					
	Class Of Protection		IP21					
	Humidity		0~90%RH(No condensation)					
PV Module Configuration	System Battery Voltage		PV module load voltage (Recommended Value)					
	12V System		18~60V(30V module*1 string, 36V module*1 string)					
	24V System		36~72V(30V module*2 string, 36V module*2 string)					
	48V System		72~144V(30V module*3 string, 36V module*3 string)					