



MPPT Solar Charge Controller

MC4885N25 / MC48100N25

Datasheet

Parameter	Parameter Value	
Type	MC4885N25	MC48100N25
System Voltage	12V/24V36V/48V	
No-load loss	0.54 W	
Battery voltage	9V~64V	
Maximal PV open-circuit voltage	240V	
Maximal oltage range at power point	Battery voltage +2~180V	
Rated charging current	85A	100A
Settable charging current	0-85A	0-100A
Power of solar panel (12V)	1100W	1320W
Power of solar panel (24V)	2200W	2640W
Power of solar panel (48V)	4400W	5280W
Charging conversion efficiency	</=98%	
MPPT tracing efficiency	>99%	
Temperature compensation	-3mV/°C/2V (default, settable lead-acid); no temperature compensation for lithium battery.	
Communication Way	TTL/Isolated RS485; baud rate 9600, digital bit 3, stop bit 1, no check bit	
Bluetooth	Built-in bluetooth 4.0BLE module, achieving mobilephone APP monitoring	
Internal temperature protection	When interior temperature of controller is higher than the set value, it shall perform linear power reduction operation	
External temperature sampling of battery	The temperature is used for battery temperature compensation and battery temperature protection	
Programme relay	DPST 10A/250VAS; 10A/30VDC	
Protection function	Battery overcharging protection, battery over discharge protection, PV anti-reverse protection, reverse charge protection at night, interior overtemperature protection of controller and over-current protection in charge	
Operation temperature	-35°C ~+ 65°C	
Elevation	</= 3000m	
Protection grade	IP32	
Weight	5.7kg	
Product size	Conventional 314X227X121 mm	