

SERIES MODELS

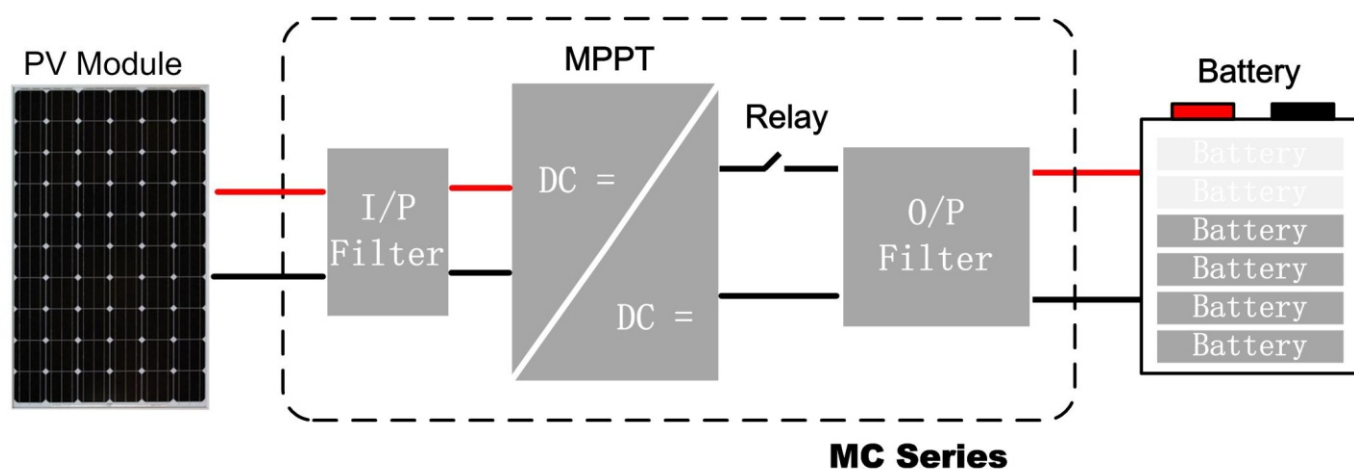
MPPT Solar Charger Controller	Sunwins MC-30F	Sunwins MC-30N	Sunwins MC-40F	Sunwins MC-40N
	Sunwins MC-50F	Sunwins MC-50N	Sunwins MC-60F	Sunwins MC-60N
	Sunwins MC-70F	Sunwins MC-70N	Sunwins MC-80F	Sunwins MC-80N

PRODUCT FEATURES



- Flexible for 12/24/48V System
- Fan cooling
- Advanced MPPT Technology 99%
- Multiphase synchronous rectification technology
- Peak conversion efficiency of 98%
- Nominal maximum solar input is DC 150V
- Multifunction LCD displays system data and status
- Three stages charging optimizes battery performance
- PV array short circuit Protection
- PV over current Protection
- PV over voltage Protection
- PV reverse polarity Protection
- Battery reverse polarity Protection
- Over charging Protection
- Overheating protection

BLOCK DIAGRAM



PRODUCT CERTIFICATION



PART V / SOLAR CHARGER CONTROLLER

SUNWINS MC SERIES II



TECHNICAL DATA

	Sunwins MC-30F	Sunwins MC-40F	Sunwins MC-30N	Sunwins MC-40N
ELECTRICAL				
Solar system voltage	12V / 24V / 48V			
PV Operating Voltage	17~100 VDC@12V / 34~100VDC@24V / 60~100VDC@48V			
Maximum PV Open Circuit Voltage	100VDC			
Maximum PV Input Power	12V 400W	12V 600W	12V 400W	12V 600W
	24V 800W	24V 1200W	24V 800W	24V 1200W
	48V 1700W	48V 2300W	48V 1700W	48V 2300W
Self Consumption	3W			
Maximum DC Load Current	40 A			
Conversion Efficiency	97.5%			
Protection	Overload, Short circuit, High voltage, High temperature, Protection			
BATTERY				
Connected Battery Type	Sealed AGM Gel Flooded			
Charging Algorithm	4-stage: Bulk, Absorption, Float, Equalize			
Bulk Charge Voltage	Sealed: 14.4V AGM Gel:14.2V Flooded:14.6V Custom:10-17V			
Float Charge Voltage	Sealed / Gel / AGM : 13.7V Flood:13.6V Custom:10-17V			
Equalize Charge Voltage	Sealed:14.6V AGM:14.8V Flooded:14.9V Custom:10-17V			
Low Voltage Reconnect Voltage	10.2V			
Low Voltage Disconnect Voltage	9V			
Temperature Compensation	-5mV / °C / 2V with BTS			
COMMUNICATION				
Communication Port	Standard Rs485 with on line monitor system			
PHYSICAL				
Net Weight	1.8 kg		3.3 kg	
Gross Weight	2.2 kg		3.7 kg	
Dimension,W x H x D	232*165*62 mm		212*170*80 mm	
Cooling	Fan cooling		Heatsink cooling	
Protection Degree	IP 21		IP 54	
ENVIRONMENT				
Relative Humidity	100% non-condensing			
Operating Temperature	-25°C to 60°C (Derating from 45°C)			
Storage Temperature	-40°C to 80°C			
Standard Warranty(years)	2 years			

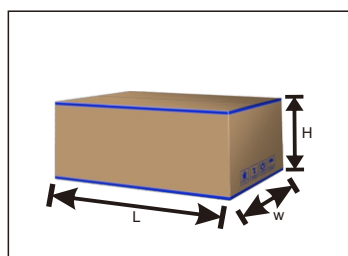
* Product specifications are subject to change without further notice

Version : 2.0

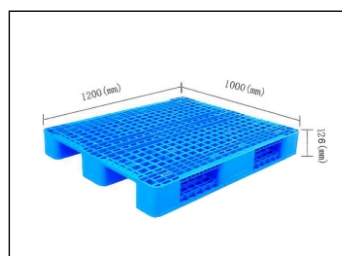
PACKING SIZES



Product Size



Product Packing Size

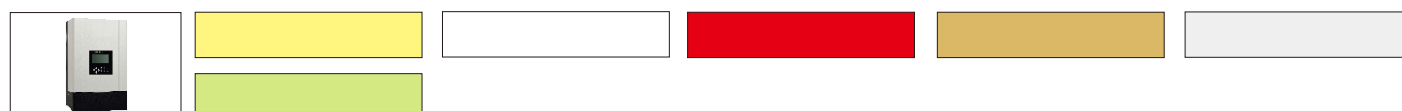


Standard Pallet Size

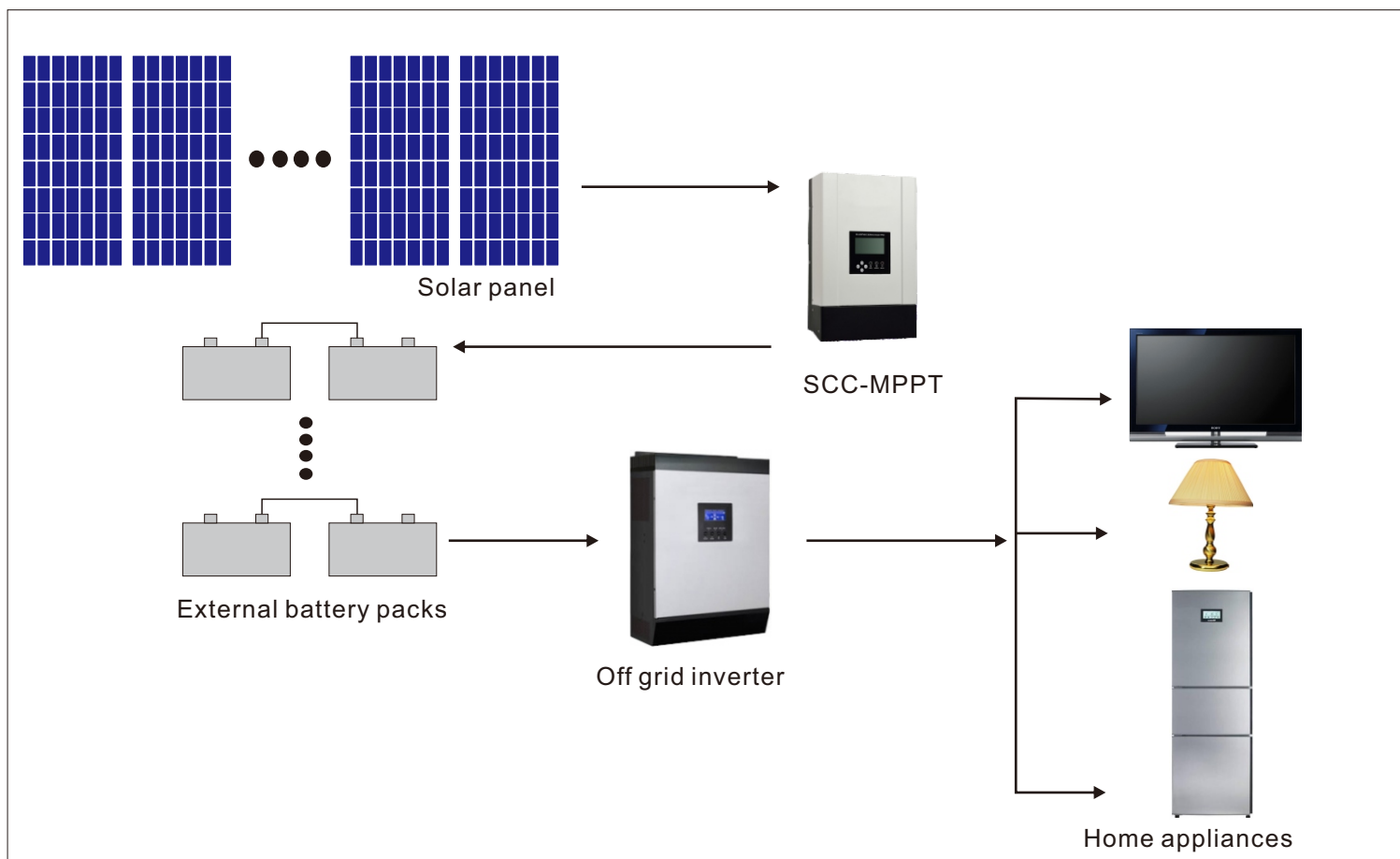


Pallet Packing Model

COLOR OPTIONS



DIFFERENT WORKING MODE



SYSTEM SOLUTION & APPLICATION CASES



We can provide :

- * 1kw to 200kw on-grid / off-grid / storage energy solutions.
- * Professional design and good quality.
- * Ensure safe and convenient construction.
- * Easy to maintain and convenient to replace.
- * Wide applications range for different environments.

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