



ACT GREEN

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# CSS-MPPT

Solar charge Controller  
300W/600W/3KW

- Intelligent Maximum Power Point Tracking technology
- Built-in DSP controller with high performance
- Automatic battery voltage detection
- Three-stage charging optimizes battery performance
- Auto load-detection\*
- Multifunction LCD displays detailed information
- Reverse polarity protection for solar panel and battery
- Overcharge and overload protection
- IP 43 protection for outdoor and harsh environment and IP 21 protection for 3KW
- Suitable for battery types of sealed lead acid, vented Gel, & NiCd
- Standard RJ45 port for remote monitoring for 3KW

Combined MPPT technology and DSP controller, CSS- MPPT will convert best voltage to charge battery based on varied temperature. Compared to traditional solar charge controller, it allows your solar panels to operate at their optimum power output voltage, providing higher efficiency up to 97.8% with lower power loss.

Integrated CSS-MPPT with inverter, solar panel, and external battery packs, it will become a standalone solar power system to generate green power for your home appliances. CSS-MPPT will convert solar power to charge external batteries, and then provide power to home appliances via inverter.



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POWER PROTECTION PARTNER

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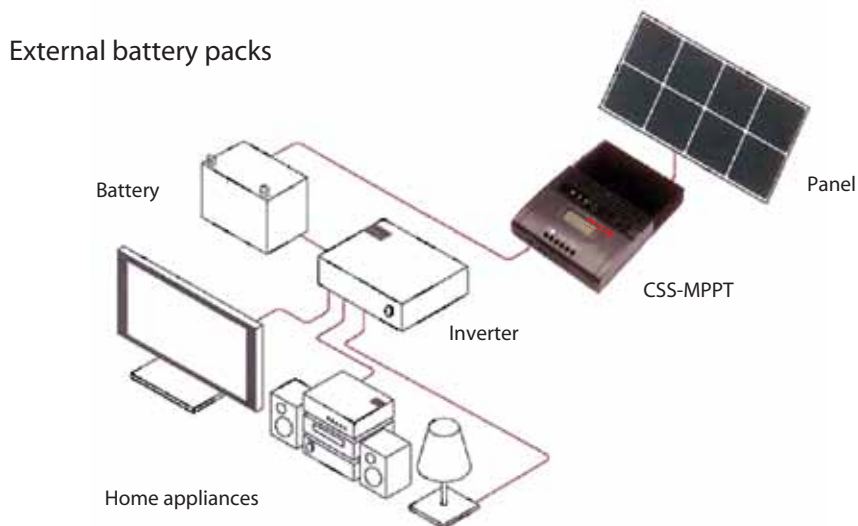
# Technical Specifications

## CSS-MPPT Series

Model		CSS-MPPT 300W	CSS-MPPT 600W	CSS-MPPT 3KW
<b>Input</b>	MPPT Range @ Operating Voltage	15VDC-33VDC @ 12V	30VDC-66VDC @ 24V	60VDC - 132VDC
	Maximum PV Array Open Circuit Voltage	50VDC	75VDC	150VDC
	Maximum PV Array Power	300W	600W	3000W
	Maximum Current	18A		45A
<b>Output</b>	Nominal Battery Voltage	12VDC	24VDC	48V
	Connected Battery Type	Sealed lead acid, vented, Gel, NiCd battery		
	Maximum Charging Current	25A		60A
	Ripple Voltage	< ± 1V		
	Maximum Efficiency	97.8%		98.0%
	Standby Power Consumption	1W	2W	
	Charging Method	Three stages: bulk, absorption, and floating		
	Overload Protection	>110% : audible alarm		
<b>Protection</b>	Overcharge Protection	Yes		
	Polarity Reversal Protection @ Solar Cell & Battery	Yes		
<b>Indicators</b>	LCD Panel	LCD panel indicating solar power, output power, battery voltage, charging current, and fault conditions	LCD panel indicating solar power, output power, battery voltage, charging current, and fault conditions	
	LED Display	Three indicators for solar, charging, and load status	Three indicators for solar, battery, and wiring fault	
<b>Physical</b>	Dimension, DxWxH (mm)	135 x 170 x 57.5	220 x 170 57.5	180 x 210 x 80
	Net Weight (Kgs)	0.92	1.85	1.28
	Connector	Input/Output terminal block		
	Type of Mechanical Protection	IP 43		IP 21
<b>Environment</b>	Humidity	0 ~ 90% RH (No condensing)		
	Operating Temperature	-20°C to 55°C		
	Storage Temperature	-40°C to 75°C		
	Altitude	0 ~ 3000 m		

Product specifications are subject to change without further notice  
 \*IP 12 protection - \*Standard RJ45 port remote monitoring

### Standalone Solar Power System:



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