

# EC-MPPT15A / 20A / 30A

## PV Charge Controller MPPT

### General specifications-Indoor models

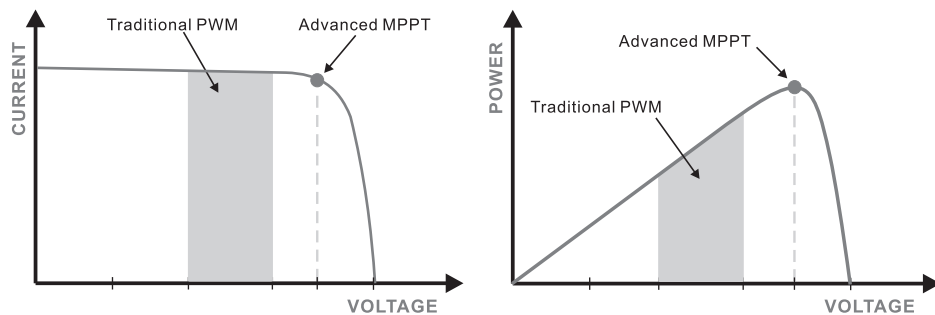
EC-MPPT15  
EC-MPPT20  
EC-MPPT30

### Benefits

- ▶ Advanced MPPT control technology
- ▶ Fully automatic four-stage charge control
- ▶ High efficiency up to 97%
- ▶ High reliability with extensive electronic protections
- ▶ Remote display and monitoring
- ▶ Automatically recognize day and night
- ▶ Single or dual load control



### MPPT Technology



Advanced MPPT technology maximizes PV output power, thus enhances energy harvest up to 30% more.

MODEL	EC-MPPT15	EC-MPPT20	EC-MPPT30
<b>ELECTRICAL PARAMETERS</b>			
Nominal Battery Voltages	12/24 VDC (Automatic selection)		
Maximum Charge Current	15 A	20A	30A
Maximum Input Voltage	100 VDC		
Self Current Consumption	<16mA		
Power Conversion Efficiency (max.)	97%		
Charging Algorithm	Four Stages: Bulk, Absorption, Float, Equalize		
Battery Temperature Compensation	-5mV/cell/°C (25°C)		
Nominal Maximum Input Power	12 VDC systems 200W 24 VDC systems 400W	12 VDC systems 260W 24 VDC systems 520W	12 VDC systems 400W 24 VDC systems 800W
<b>PROTECTION</b>			
PV Panel	Reverse polarity, Overload, Short circuit, Over voltage		
Battery	Over voltage, Undervoltage, Over current, Over temperature, Reverse polarity		
System	Inrush current, Reverse current		
<b>MECHANICAL PARAMETERS</b>			
Dimensions (W X H X D ,mm)	147X123X47		160X123X70
Weight(kg)	0.75		1.5
Standard Warranty	3		
<b>GENERAL PARAMETERS</b>			
Operating Temperature Range	-25°C to +45°C		
Storage Temperature Range	-40°C to +70°C		
Humidity	0~98% non-condensing		
Environmental Rating	IP 20		
<b>COMMUNICATION</b>			
RS-485	Optional		
LED Display	Yes		
LCD Display	Optional		
<b>OTHER FUNCTION</b>			
Number of Load Control	1 or 2		