

MPPT Solar Controller



Features and Functions

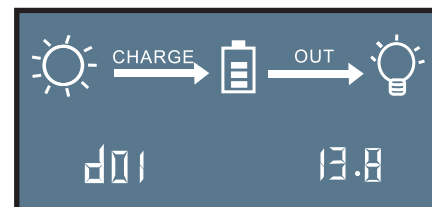
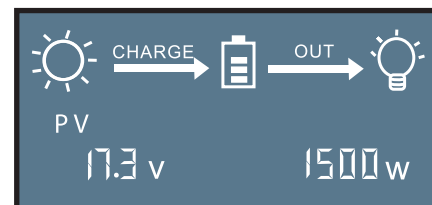
- 30A/40A/50A/60A MPPT Solar Charge Controller
- MPPT technology
- Build-in DSP controller with high performance
- Automatic battery voltage detection for 12V/24V or 12V/24V/36V/48V
- 3-stage charging optimizes battery performance
- Overcharge protection and input PV polarity reverse protection
- Suitable for battery types such as sealed and lead acid, vented gel and lithium battery

Introduction

MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery



LCD Display information



Item	Display	Meaning
d00	24	DC output time setting (H)
d01	13.8	Float voltage setting (V)
d02	14.5	BAT highest voltage setting (V)
d03	10.0	BAT lowest voltage setting (V)
d04	00	Battery type selection Lead acid BAT00, lithium BAT 01

Item	Meaning
1	Photovoltaic cell voltage
2	Battery voltage Photovoltaic cell current
3	Work mode
4	Fault protect

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LCD display



Simple button operation



Protections



Small Size
Light Weight



More Accurate
More Intelligent

MPPT Solar Controller



Specifications

PV Requirement

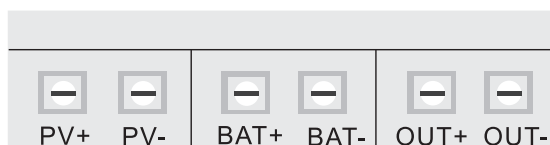
Models: 30A, 40A, 50A, 60A		30A	40A	50A	60A
Maximum PV input power	12V system	400W	480W	600W	720W
	24V system	720W	960W	1200W	1440W
	36V system	1000W	1400W	1800W	2100W
	48V system	1200W	1700W	2200W	2800W
PV open circuit voltage requirement (Make sure the Voc of PV meeting the requirement as right. Voc is 1.5 or 2 times than battery, then it's best efficiency)	12V system	DC20V~DC80V			
	24V system	DC37V~DC105V			
	36V system	DC50V~DC160V			
	48V system	DC72V~DC160V			
Maximum PV open circuit voltage (Voc)	12V, 24V, 23V, 48V System	DC190V (The controller can't work at this voltage of long duration that will break controller. Please refer to input voltage from PV.)			

Basic Parameter

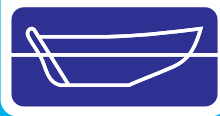
MPPT controller	12V system	24V system	36V system	48V system
Overcharging protection voltage	15V	30V	45V	60V
System voltage automatic recognition	DC9V ~DC15V	DC18V ~DC29V	DC30V ~DC39V	DC40V ~DC60V
Max efficiency	≥98.1% (Voc is 1.5 or 2 times than battery, then it's best efficiency)			
PV utilization	≥99%			
Protection function				
Temperature Protection	75°C			
Fan-on temperature	>40°C			
Fan-off temperature	<35°C			
Propoerties				
Size (mm)	235 x 188 x 100			
Net weight (Kg)	1.1			
Gross weight (Kg)	1.6			

Air Circuit Breaker and Wires Requirement

P/N	30A	30A	30A	30A
Wire (copper)	≥4mm	≥6mm	≥8mm	6mm*2PCS
Air circuit breaker	63A	63A	63A	100A



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