



广州贝斯特电子科技有限公司

Guangzhou Best Electronic Technology co.,Ltd

BST (MPPT) Solar Charge Controller (10A-100A)

Feature:

- ◆ Advanced MPPT Tracking ,99% tracking efficiency , compared with PWM ,The generating efficiency increase near 20%.
- ◇ LCD display PV data and chart simulates power generation process .
- ◆ Wide PV input voltage range ,convenient for system configuration .



Model BST	Voltage / Current	
BST-10	12V/24V/48V 10A	
BST-20	12V/24V/48V 20A	
BST-30	12V/24V/48V 30A	
BST-40	12V/24V/48V 40A	
BST-50	12V/24V/48V 50A	
BST-60	12V/24V/48V 60A	
BST-80	12V/24V/48V 80A	
BST-100	12V/24V/48V 100A	

Product Parameters

Model :Wonder 1	150/10, 150/20, 150/30	150/40 ,150/50,150/60	150/80,150/100
Rated Current	10A/20A/30A	40A/50A/60A	80A/100A
Rated System voltage	12/24V/48V auto recognition		
MPPT Tracking Voltage Range	12V System: 15V-120V ; 24V System: 30V-120V ; 48V System: 60V-120V		

Max PV Input Voltage(At 25°C)	150V		
PV Array Maximum Power	12V System : 140W,280W,420W,560W,700W,840W,1120W,1400W ; 24V System : 280W,560W,840W,1120W,1400W,1680W,2240W,2800W ; 48V System : 560W,1120W,1680W,2240W,2800W,3360W,4480W,5600W		
Battery type	Lead acid battery, deep cycle battery, gel battery etc(Battery type base on user charge specification)		
Floating voltage	13.8V/ Single battery		
Charge voltage	14.2V/Single battery		
Charging protection voltage	15V/Single battery		
Battery overdischarge voltage	10.5V/Single battery		
Charging mode	MPPT maximum power input tracking		
Charging method	Three stages : constant current; constant voltage; floating charge		
Protection	Over-voltage /under-voltage /over-temperature/PV anti-reverse protection		
Conversion Efficiency	>98%		
MPPT Efficiency	>99%		
Display	LCD		
Thermal method	Cooling fan in intelligent control		
Type of mechanical protection	IP20		
Operating temperature	-15°C~+50°C		
Storage temperature	-20°C~60°C		
Elevation	2000m(Derating above 2000m)		
Humidity	5~95% (No condense)		
Protect the circuit	over-charge, over-discharge, short circuit and over-load protection		
Machine size (L*W*Hmm)	185*135*65	240*143*74	280*180*100
Package size (L*W*Hmm)	235*185*116(1pcs) 383*249*246(4pcs)	290*203*126(1pcs) 419*304*266(4pcs)	330*240*153(1pcs) 487*345*166(2pcs)
N.W (Kg)	1.15(1pcs)	1.8(1pcs)	3.7(1pcs)
G.W (Kg)	1.35(1pcs)	2.0(1pcs)	4.0(1pcs)
Note: All specifications are subject to change without prior notice			

BST (MPPT) Solar Charge Controller (50A-100A)

Feature:

- ◆ Advanced MPPT Tracking ,99% tracking efficiency , compared with PWM ,The generating efficiency increase near 20%.
- ◇ LCD display PV data and chart simulates power generation process .



Model BST-1	Voltage / Current	
BST 1 -50	96V 50A	
BST 1-100	96V 100A	
BST 1-50	192V216V/240V 50A	
BST 1-100	192V216V/240V 100A	
BST 1-50	384V 50A	
BST 1-100	384V 100A	

Product Parameters

Model :Wonder 1	96/50	96/100	192/50,216/50, 240/50,384/50	192/100,216/100, 240/100,384/100
Rated Current	50A	100A	50A	100A
Rated System voltage	96V		192V/216V/240V	384V
				192V/216V/240V 384V

MPPT Tracking Voltage Range	Battery voltage ~240V (96V system)/Battery voltage ~360V (192V /216V system)/ Battery voltage ~400V (240V system)/Battery voltage ~640V (384V system)					
Max PV Input Voltage(At 25℃)	300V (96V system)/480V (192V /216V system)/500V (240V system)/800V (384V system)					
PV Array Maximum Power	5.6KW	5.6KW*2	11.2KW/12.6KW/ 14KW/22.4KW		11.2KW*2/12.6KW*2 14KW*2/22.4KW*2	
MPPT route number	1	2	1		1	
Battery type	Lead acid battery, deep cycle battery, gel battery etc(Battery type base on user charge specification)					
Floating voltage	110.4V / 220.8V / 248.4V / 276V / 441.6V					
Charge voltage	113.6V / 227.2V / 255.6V /284V / 454.4V					
Charging protection voltage	120V / 240V / 270V / 300V / 480V					
Promote recovery voltage	105.6V / 211.2V / 237.6V / 264V / 422.4V					
Charging mode	MPPT maximum power input tracking					
Charging method	Three stages : constant current; constant voltage; floating charge					
Protection	Over-voltage /under-voltage /over-temperature/PV anti-reverse protection					
Conversion Efficiency	>98%					
MPPT Efficiency	>99%					
Display	LCD					
Thermal method	Cooling fan in intelligent control					
Type of mechanical protection	IP20					
Operating temperature	-15℃~+50℃					
Storage temperature	-20℃~60℃					
Elevation	2000m(Derating above 2000m)					
Humidity	5~95% (No condense)					
Protect the circuit	over-charge, over-discharge, short circuit and over-load protection					
Machine size (L*W*Hmm)	315*250*108		400*300*161.5		530*410*161.5	
Package size (L*W*Hmm)	365*310*164		452*378*208		600*490*207	
N.W (Kg)	4.5	5.6	10	11	14.5	17.5

