

BST-KY1(PWM) Solar Charge Controller (10A-60A)

Feature:

- ◆ LCD display PV charge, battery and DC loading condition.
- ◇ Protection against over charge, over discharge, over load and anti-thunder.



Model K1	Voltage / Current	
KY1-1012/24	12V/24V 10A	
KY1-2012/24	12V/24V 20A	
KY1-3012/24	12V/24V 30A	
KY1-4012/24	12V/24V 40A	
KY1-5012/24	12V/24V 50A	
KY1-6012/24	12V/24V 60A	
KY1-1048	48V 10A	
KY1-2048	48V 20A	
KY1-3048	48V 30A	
KY1-4048	48V 40A	
KY1-5048	48V 50A	
KY1-6048	48V 60A	

Product Parameters

K1 Specification		
Rated Current	10A/20A/30A	40A/50A/60A
Rated System voltage	12/24V(auto recognition) , 48V	
PV input voltage range	12V System: 15V-44V ; 24V System: 30V-44V ; 48V System: 60V-88V	
Max PV Input Voltage(At 25°C)	12V/24V System : 50V; 48V System : 100V	
PV Array Maximum Power	12V System : 140W,280W,420W,560W,700W,840W ; 24V System : 280W,560W,840W,1120W,1400W,1680W ; 48V System : 560W,1120W,1680W,2240W,2800W,3360W	
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	17V/Single battery	
Battery overdischarge voltage	10.5V/Single battery	
Charging mode	PWM pulse width control	
Charging method	Three stages : constant current; constant voltage; floating charge	
No low loss	<5mA	
Charging circuit voltage drop	≤0.20V	
Discharge circuit voltage drop	≤0.15V	
Display	LCD	
Thermal method	Natural heat dissipation	
Type of mechanical protection	IP20	
Operating temperature	-10°C~40°C	
Storage temperature	-20°C~60°C	
Elevation	< 5000m , (Less solar panel when exceed 2000m)	
Humidity	5~95% (No condense)	
Protect the circuit	over-charge, over-discharge, short circuit and over-load protection	
Machine size (L*W*Hmm)	152*97*42	182*112*64
Package size (L*W*Hmm)	160*106*48	191*123*70
N.W (Kg)	0.34	0.64
G.W (Kg)	0.39	0.72

Note: All specifications are subject to change without prior notice