Feature

- 1. MPPT charging mode, peak efficiency up to 99%;
- 2. DC12V/24V/48V battery system automatic recognition;
- 3. Maximum PV input voltage up to DC100V;
- 4. Three stages charge: fast charge(MPPT), constant voltage charge, floating charge;
- 5. Three option of discharge: on mode and off mode and PV voltage(solar) control mode.
- 6. Users can choose 4 kinds of commonly standard batteries(Sealed lead acid, Vented, Gel, NiCd);
- 7. Digital tube can display battery voltage and charging current;
- 8. RS232 communication, we can offer communication protocol also;
- 9. This controller can be paralleled infinitely.
- 10. CE, RoHS and FCC Certifications are approved.
- 11. 2 years warranty; 3~10 years extended technical service.

Protection

Input Low Voltage Protection;

Input Overvoltage Protection;

Charge over voltage power Protection;

Low Voltage output Protection;

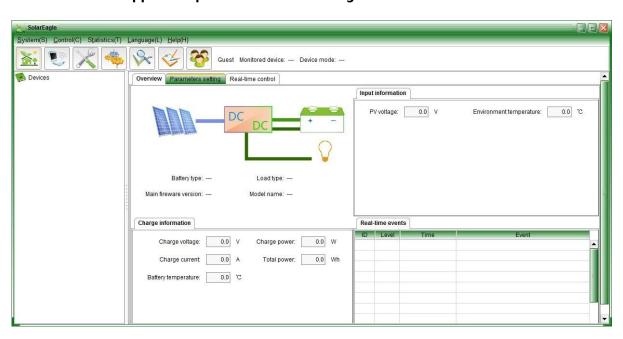
Rated output Current protection;

Temperature Protection.

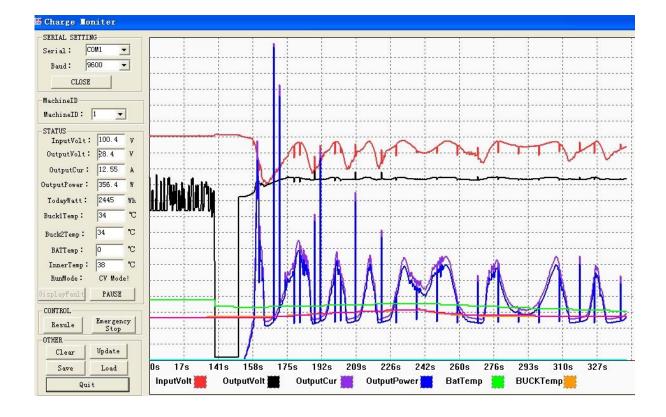
Connection diagram



The interface of upper computer software working state



The interface of test software working state



Parameter

MPPT solar controller modes I-P-e-SMART-12V/24V/48V-series		30A
Charge mode	MPPT(maximum	power point tracking)
Charge method	Three stages: co	nstant current(MPPT),constant
	voltage,floating	charge
System type	DC12V/24V/48V	Automatic recognition
System voltage	12V system	DC9V~DC15V
	24V system	DC18V~DC30V
	48V system	DC36V~DC60V
Soft start time	12V/24V/48V system	≤3S
Dynamic response	12V/24V/48V	500us
recovery and range	system	
MPPT efficiency	12V/24V/48V system	≥96.5%,≤99%
INPUT CHARACTERIS	TICS	
MPPT working voltage and Range	12V system	DC14V~DC100V
	24V system	DC30~DC100V
	48V system	DC60~DC100V
Low voltage input Protection point	12V system	DC14V
	24V system	DC30V
	48V system	DC60V
Low voltage input Recovery point	12V system	DC18V
	24V system	DC34V
	48V system	DC65V
Input over voltage protection point	12V/24V/48V system	DC110V

Input over voltage	12V/24V/48V	
recovery point	system	DC100V
recovery point	+ -	426W
Maximum PV power	24V system (W)	852W
l laximam r power	48V system (W)	1704W
CHARGE CHRECTRESTIC		170144
Selectable Battery Types		Sealed lead acid, vented, Gel, NiCd battery
(Default type is GEL	12V/24V/48V	(Other types of the batteries also can be
battery)	system	defined)
	12V/24V/48V	Please check the charge voltage according
Constant Voltage	system	to the battery type form.
Floating Charge Voltage	12V/24V/48V	Please check the charge voltage according
	system	to the battery type form.
	12V/24V/48V	, , , , , , , , , , , , , , , , , , ,
Rated Input Current	system	30A
Current-limiting	12V/24V/48V	
Protection	system	35A
	12V/24V/48V	2 222/102
Temperature Factor	system	±0.02%/°C
Temperature	12V/24V/48V	24.27/ (TI 1 1 1 25.00) (10.27)
Compensation	system	14.2V-(The highest temperature-25°C)*0.3
·	12V/24V/48V	200 1/
Output Ripples(peak)	system	200mV
Output Voltage Stability	12V/24V/48V	1 50/
Precision	system	≤±1.5%
Output Discharge Char	acteristics	•
Output voltage		Base on battery voltage
Low voltage output		Default 10.5V; recovery 11V; custom
Protection point		available ;
Rated output Current		30A
The output control		Always on, always off, PV voltage control switch
Output control set mode		Controller button or upper computer
Display		
LED digital tube display		Battery voltage, charge current
LED light display		Charging indicator light, LOAD indicator light
PC□communication port□		RS232
Other Parameters		
Noise		≤40dB
Thermal heat-dissipating method		Itself cooling
Components		Imported material, with EU standards.
Certification		CE\FCC\ROHS
Environment		1
Humidity		0~90%RH (no condense)
Altitude		0~3000m
Operating Temperature		-20°C ~ +50°C
Storage Temperature		-40°C ~ +75°C
Atmospheric Pressure		70~106kPa
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Packing and shipping









Company









