Feature:

1.MPPT charge mode,conversion efficiency upto 99%,can save 30%~60%of the power than traditional controller.

2.With high efficient MPPT operation scheme and adopting TI28035chip,make the Solar panels utilization rate upto 99%.

3.Intelligent design,the device can be upgraded online,customersenjoy the lifelong upgrade service.

4.Compliance with the 2002/95/EC environment protectingdemand,doesn’t include the Cadmium, hydride and fluoride

5.Adopting the well-known brand components,the devices can sufferthe temperature not less than 105℃.The service life is designed to extend to 10years in theory.

6.Charge mode: three stages (fastcharge,constant charge,floating charge)

7.12V/24V/48V system autorecognize for easy control.

8.Nominal maximum solar input isDC 150V

9.Connected BatteryType choosing: Sealed lead acid, vented, Gel, NiCd battery. Other types of thebatteries can also be defined.

10. LCD and LEDs show all kinds ofparameter like products model, PV input voltage,battery voltage,chargecurrent,charge power,work condition,and also can add customers’company name andwebsite.

11. Communication Port.RS232communication can provide communication protocol, This make the unified andintegrated management more convenient to customers.

12. With providing a Microsoft byconnecting with PC that can show the working state and all parameters in 7languages.

13. Extensible LAN remote control.

14.Equipment integrity:controller+CD-ROM(microcomputer software) + communication wire+Anderson terminals;

15.CE,ROHS,FCC,PSE certificationsapproved.The device also can support to pass the other certifications.

16. 2 years warranty. And 3~10years extended warranty service also can be provided.

Parameter:

Model:I-P-MSC-DC12V/24V/48V-series		40A	50A	60A
Charge Mode	Maximum Power Point Tracking			
Method	3 stages: fast charge(MPPT),constant voltage,floating charge			
System Type	DC12V/24V/48V	Automatic recognition		
System Voltage	12V system	DC9V~DC15V		
	24V system	DC18V~DC30V		
	48Vsystem	DC36V~DC60V		
Soft Start Time	12V/24V/48Vsystem	≤10S		
Dynamic Response Recovery Time	12V/24V/48Vsystem	500us		
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%		

PV Modules Utilization Rate	12V/24V/48Vsystem	≥99%		
Input Characteristics				
MPPT Working Voltage and Range	12V system	DC18V~DC150V		
	24V system	DC34~DC150V		
	48V system	DC65~DC150V		
Low Voltage Input Protection Point	12V system	DC16V		
	24V system	DC30V		
	48V system	DC60V		
Low Voltage Input Recovery Point	12V system	DC22V		
	24V system	DC34V		
	48V system	DC65V		
Max DC Voltage	12V/24V/48V system	DC160V		
Input Overvoltage Protection Point	12V/24V/48V system	DC150V		
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V		
Max. PV Power	12V system	570W	700W	900W
	24V system	1130W	1400W	1700W
	48V system	2270W	2800W	3400W
Output Characteristics				
Selectable Battery Types (Default type is GEL battery)	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)		
Constant Voltage	12V/24V/48V system	Please check the charge voltage according to the battery type form.		
Floating Charge Voltage	12V/24V/48V system			
Over Charge Protection Voltage	12V system	14.6V		
	24V system	29.2V		
	48V system	58.4V		
Rated Output Current	12V/24V/48V system	40A	50A	60A
Current-limiting Protection	12V/24V/48V system	44A	55A	66A
Temperature Factor	12V/24V/48V system	±0.02%/℃		
Temperature Compensation	12V/24V/48V system	14.2V-(The highest temperature-25℃)*0.3		
Output Ripples(peak)	12V/24V/48V system	200mV		
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%		
Display				
LCD display		Input,output parameter and output power etc (check the LCD display instruction)		
LED display		3 LEDs indicates:Fault indicate light,charge indicate light,power source indicate light(check the LED instruction)		
Software Control through PC(communication port)		RS232 (matching) or LAN(optional)		
Protection				
Input Low Voltage Protection		Check the input characteristics		
Input Overvoltage Protection		Check the input characteristics		
Input Polarity Reversal Protection		yes		
Output Overvoltage Protection		Check the output characteristics		
Output Polarity Reversal Protection		yes		
Short-circuit Protection		Recover after eliminating the Short-circuit fault,no problem for long term Short-circuit		
Temperature Protection		95℃		
Temperature protection		Above 85℃,decrease the output power,decrease 3A per degree.		
Other Parameters				
Noise		≤40dB		
Thermal methods		Forced air cooling,fan speed rate regulated by temperature,when inner temperature is too low,fan ran slowly or stop;when controller stop working,fan also stop ran.		
Components		World brand raw materials. Compliance with EU standards.All rated temperature of electrolytic capacitors not less than 105℃		
Smell		No peculiar smell and and toxic substances.		
Environment Protection		Meet the 2002/95/EC,no cadmium hydride and fluoride		
Physical				
Measurement DxWxH(mm)		270*185*90		
N.G(kg)		3		
G.N(kg)		3.6		
Color		Blue/Green (optional)		
Safety		CE,RoHS, PSE,FCC		
EMC		EN61000		
Type of Mechanical Protection		IP21		
Environment				
Humidity	0~90%RH (no condense)			
Altitude	0~3000m			
Operating Temperature	-20℃ ~ +40℃			
Storage Temperature	-40℃ ~ +75℃			
Atmospheric Pressure	70~106kPa			

The specification is only forreference. Subject to change without prior notice.

We provide OEM and ODMservice.The 36V/72V/96V model also can be custom made for you

The Figures of the PC Firmware and Testing Software

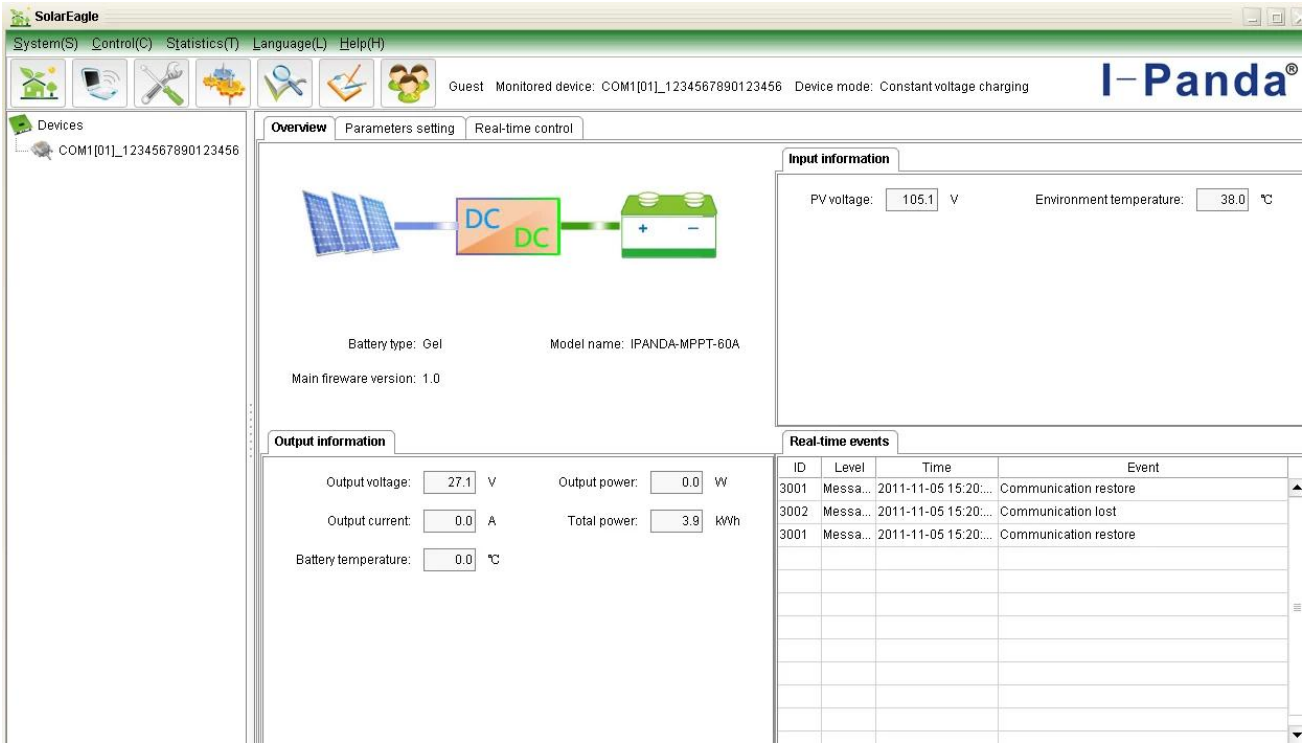

Figure1: PC Firmware

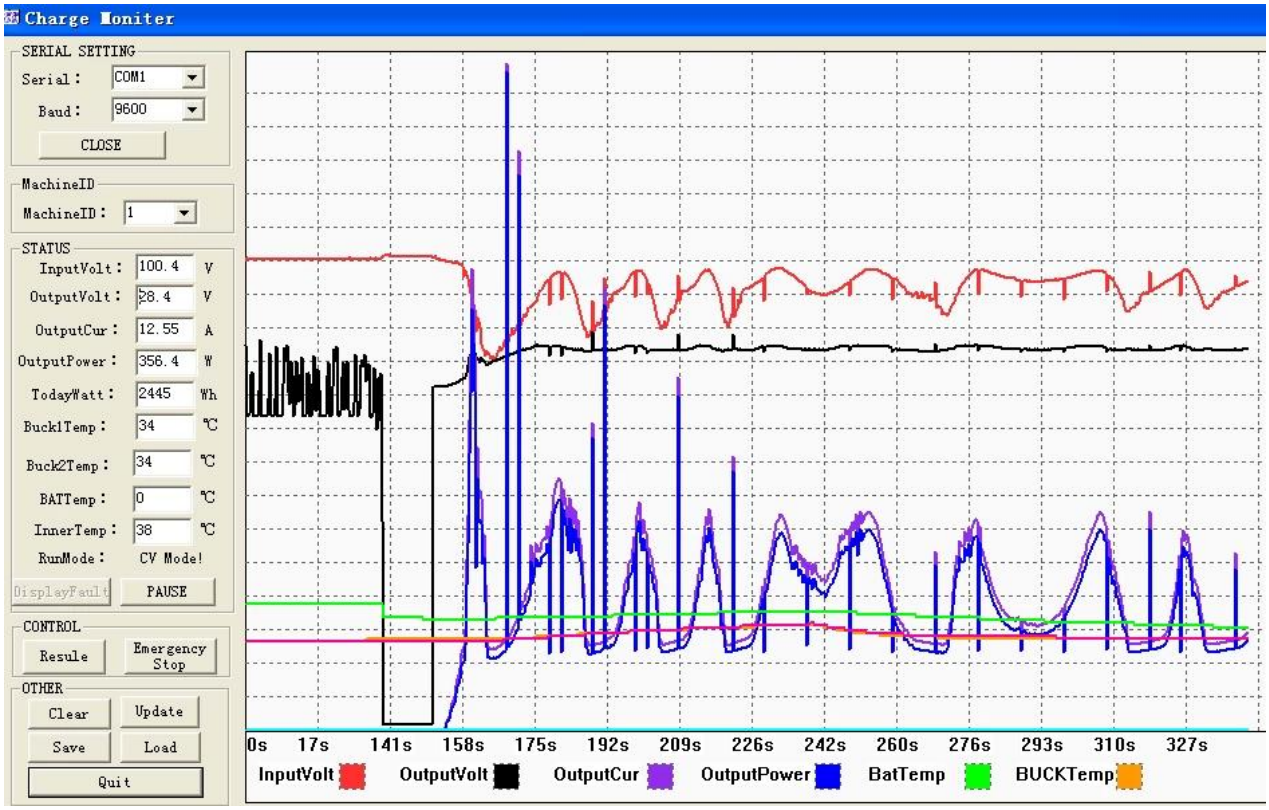

Figure:Testing Software

system

Package