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 suffer the temperature not less than 105° C. The service life is designed to extend to 10 years 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 and integrated management more convenient to customers.

12. With providing a Microsoft by connecting 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 Tra	r Point Tracking							
Method	3 stages: fast charge(MPP	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	≤10S						
Dynamic Response Recovery Time	12V/24V/48Vsystem	500us	500us						
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%	≥96.5%,≤99%						

PV Modules Utilization Rate	12V/24V/48Vsyste	em	≥99%				
Input Characteristics	12) (DC101/ DC1501/				
MDDT Working Voltoge and Drage	12V system		DC18V~DC150V				
MPPT Working Voltage and Range	24V system		DC34~DC150V				
	48V system		DC65~DC150V				
Leve Malter we have the Decks stime Deint	12V system		DC16V				
Low Voltage Input Protection Point	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 syst	tem	DC160V				
Input Overvoltage Protection Point	12V/24V/48V syst	em	DC150V				
	12V/24V/48V syst		DC145V				
Input Overvoltage Recovery Point	12V/24V/46V Syst	em	570W	900W			
Max. PV Power	24V system		1130W	700W 1400W	1700W		
				2800W	3400W		
Output Characteristics	48V system		2270W	2800W	3400W		
Output Characteristics Selectable Battery Types (Default type is GEL battery)	12V/24V/48Vsyste	em	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)				
Constant Voltago			Other types of the ba	denned)			
Constant Voltage Floating Charge Voltage	12V/24V/48V syst 12V/24V/48V syst		Please check the charge	ge voltage accordin	g to the battery type form.		
		em	14.61/				
Quar Charge Bratestian Valtage	12V system		14.6V				
Over Charge Protection Voltage	24V system		29.2V				
	48V system		58.4V	504	60.4		
Rated Output Current	12V/24V/48V syst		40A	50A	60A		
Current-limiting Protection	12V/24V/48V syst		44A	55A	66A		
Temperature Factor	12V/24V/48V syst		±0.02%/°C				
Temperature Compensation	12V/24V/48V syst		14.2V-(The highest ter	nperature-25°C)*0.3	3		
Output Ripples(peak)	12V/24V/48V syst		200mV				
Output Voltage Stability Precision	12V/24V/48V syst	tem	≤±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) Protection			RS232 (matching) or L	AN(optional)			
Input Low Voltage Protection			Check the input chara	storistics			
Input Overvoltage Protection			Check the input characteristics				
Input Polarity Reversal Protection			Ves				
Output Overvoltage Protection			Check the output characteristics				
Output Polarity Reversal Protection			Ves				
			Recover after eliminating the Short-circuit fault, no problem for long term Short-				
Short-circuit Protection			circuit 95°C				
Temperature Protection			95°C				
Temperature protection			Above 85°C,decrease	the output power,de	ecrease 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°C				
Smell Environment Protection			No peculiar smell and and toxic substances. 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							
			no condense)				
Altitude 0~3000m							
Operating Temperature -20°C ~ +40			С				
Storage Temperature -40°C ~ +75							
Atmospheric Pressure 70~106kPa			<u>-</u>				
Munospheric riessure //0~106KPa							

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

SolarEagle System(S) Control(C) Statistics(T)	Longuage(L) Holp(H)				_	_				
		Guest Monitored d	levice: COM1[01]_123	456789012345	i6 Dev	vice mode	: Constant voltage ch	arging I-Pai	าda®	
Devices	Overview Parameters set	ing Real-time contr	rol							
Сом1[01]_1234567890123456					Input	t informat	ion			
				PV voltage: 105.1 V Environment temperature: 38.0 °C				38.0 °C		
	Battery type: Ge		odel name: IPANDA-N	PPT-60A						
	Output information	ion				Real-time events				
	Output voltage: 27.1 V Output current: 0.0 A				ID	Level	Time	Event		
		27.1 V	27.1 V Output power: 0.0 W	.0 W	3001	Messa	2011-11-05 15:20:	Communication restore		
		0.0 A	.0 A Total power: 3.9 KWh	9 kiðih	3002	Messa	2011-11-05 15:20:	Communication lost		
		0.0			3001	Messa	2011-11-05 15:20:	Communication restore		
	Battery temperature:	D" 0.0								
									=	
1	100									

Figure1: PC Firmware

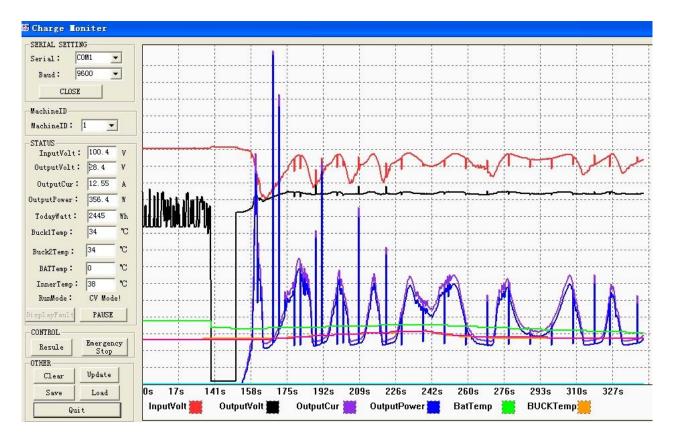


Figure: Testing Software





Package

