Feature:

- 1.MPPT charge mode, conversion efficiency up to 99%, can save 30%~60% of the power than traditional controller.
- 2. With high efficient MPPT operation scheme and adopting Tl28035 chip, make the Solar panels utilization rate up to 99%.
- 3.Intelligent design, the device can be upgraded online, customers enjoy the lifelong upgrade service.
- 4.Compliance with the 2002/95/EC environment protecting demand, 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 (fast charge, constant charge, floating charge)
- 7.12V/24V/48V/96V system auto recognize for easy control.
- 8. 12V/24V/48V system maximum solar input is DC 150V ,96V system maximum solar input is DC 300V ;
- 9. Connected Battery Type choosing: Sealed lead acid, vented, Gel, NiCd battery. Other types of the batteries can also be defined.
- 10.LCD and LEDs show all kinds of parameter like products model, PV input voltage, battery voltage, charge current, charge power, work condition, and also can add customers' company name and website.
- 11.Communication Port.RS232 communication 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 7 languages.
- 13.Extensible LAN remote control.
- 14.Equipment integrity: controller+CD-ROM(microcomputer software) + communication wire+Anderson terminals:
- 15.CE,ROHS,FCC,PSE certifications approved. The device also can support to pass the other certifications.
- 16. 2 years warranty. And 3~10 years extended warranty service also can be provided.

Parameter:

Model: I-P-MSC-DC12	2V/24V/48V/96V-series	20A 30A		
Charge Mode	Maximum Power Point Tracking			
Method	3 stages: fast charge(MPPT),constant voltage,floating charge			
System Type	DC12V/24V/48V/96V	Automatic recognition		
System Voltage	12V system	DC9V~DC15V		
	24V system	DC18V~DC30V		
	48Vsystem	DC36V~DC60V		
	96Vsystem	DC72V~DC120V		
Soft Start Time	12V/24V/48V/96V	≤10S		
Dynamic Response	12V/24V/48V/96V	500us		
Recovery Time	120/240/400/900	J0003		
Conversion	12V/24V/48V/96V	≥96.5%,≤99%		
Efficiency	12 1/24 1/40 1/30 1	230.370,23370		
PV Modules	12V/24V/48V/96V	≥99%		
Utilization Rate				
Input Characteristics				
MPPT Working Voltage and Range	12V system	DC18V~DC150V		
	24V system	DC34~DC150V		
	48V system	DC65~DC150V		
	96Vsystem	DC125~DC300V		

	1	I		
	12V system	DC16V		
Low Voltage Input Protection Point	24V system	DC30V		
	48V system	DC60V		
	96Vsystem	DC120V		
	12V system	DC22V		
Low Voltage Input	24V system	DC34V		
Recovery Point Max DC Voltage	48V system	DC65V		
	96Vsystem	DC125V		
	12V/24V/48V system	DC160V		
	96Vsystem	DC300V		
Input Overvoltage	12V/24V/48V system	DC150		
Protection Point	96Vsystem	DC300V		
Input Overvoltage	12V/24V/48V system	DC145V		
Recovery Point	96Vsystem	DC295V		
recovery rome	12V system	280W 450W		
			850W	
Max. PV Power	48V system	1120W	1700W	
			3400W	
O to the Characteristic	96Vsystem	2240W	340000	
Output Characteristi				
Selectable Battery			ted, Gel, NiCd battery	
	12V/24V/48V/96Vsystem		atteries also can be	
is GEL battery)		defined)		
Constant Voltage	12V/24V/48V/96Vsystem	Please check the cha	rge voltage according	
Floating Charge Voltage	12V/24V/48V/96Vsystem	Please check the charge voltage according to the battery type form.		
Voicage	12V system	14.6V		
Over Charge	24V system	29.2V		
Protection Voltage	48V system	58.4V		
	96V system	116.8V		
Rated Output Current	12V/24V/48V/96Vsystem	20A	30A	
Current-limiting Protection	12V/24V/48V/96Vsystem	25A	35A	
Temperature Factor	12V/24V/48V/96Vsystem	±0.02%/°C		
Temperature Compensation	12V/24V/48V/96Vsystem	14.2V-(The highest temperature-25°C)*0.3		
Output Ripples(peak)	12V/24V/48V/96Vsystem	200mV		
Output Voltage Stability Precision	12V/24V/48V/96Vsystem	≤±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 thr port)	ough PC(communication	RS232 (matching) or LAN(optional)		
Protection				
Input Low Voltage Pr	rotection	Check the input characteristics		
Input Overvoltage Pr		Check the input characteristics		
Input Polarity Revers		yes		
у со				

Output Overvoltage Protection	Check the output characteristics		
Output Polarity Reversal Protection	yes		
	Recover after eliminating the Short-circuit		
Short-circuit Protection	fault,no problem for		
	long term Short-circuit		
Temperature Protection	95°C		
Tomporature protection	Above 85°C, decrease the output		
Temperature protection	power,decrease 3A per degree.		
Other Parameters			
Noise	≤40dB		
	Forced air cooling, fan speed rate regulated		
The autor of the other de	by temperature, when inner temperature is		
Thermal methods	too low,fan ran slowly or stop;		
	when controller stop working,fan also stop		
	ran.		
	World brand raw materials. Compliance		
Components	with EU standards.		
	All rated temperature of electrolytic		
Consti	capacitors not less than 105°C		
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°C ~ +40°C		
Storage Temperature	-40°C ~ +75°C		
Atmospheric Pressure	70~106kPa		

The specification is only for reference. Subject to change without prior notice. We provide OEM and ODM service. The 36V/72V/96V model also can be custom made for you.

Pictures:









The Figures of the PC Firmware and Testing Software

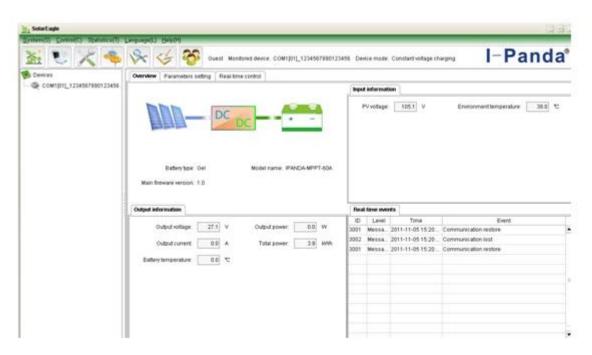


Figure 1: PC Firmware₽

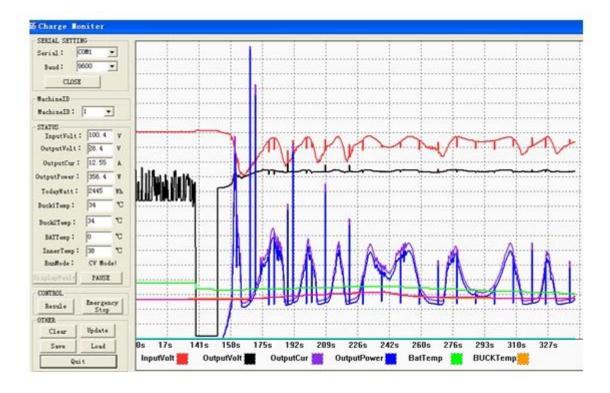


Figure2: Testing Software

Note: 1) Attachment have upper computer software, suitable for all computer system.

- $2) \ Trafficker \ will \ provide \ neutral \ upper \ computer \ software \ and \ CD \ , or \ software \ with \ customer's \ logo$
- 3) WIN7 , WIN8 system user , please log in as administrator: More details please check the manul

Other Parameters

Details please check design brief []technical documents []product manual .