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 TI28035 chip, make the Solar panels utilization rate up to 99%.

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/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) +temperature sensing wire+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.

Model: I-P-MSC-DC12V/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	DC9V~DC15V	
	24V system	DC18V~DC30V	DC18V~DC30V	
	48Vsystem	DC36V~DC60V	DC36V~DC60V	
	96Vsystem	DC72V~DC120V	DC72V~DC120V	
Soft Start Time	12V/24V/48V/96V	≤10S		
Dynamic Response Recovery Time 12V/24V/48V/96V		500us		
Conversion Efficiency	12V/24V/48V/96V	≥96.5%,≤99%		
PV Modules Utilization Rate	12V/24V/48V/96V	≥99%		
Input Characteristics		•		
MPPT Working Voltage and Range	12V system	DC18V~DC150V		
	24V system	DC34~DC150V	DC34~DC150V	
	48V system	DC65~DC150V	DC65~DC150V	
	96Vsystem	DC125~DC300V	DC125~DC300V	
Low Voltage Input Protection Point	12V system	DC16V	DC16V	
	24V system	DC30V	DC30V	
	48V system	DC60V	DC60V	
	96Vsystem	DC120V	DC120V	
Low Voltage Input Recovery Point	12V system	DC22V		
	24V system	DC34V	DC34V	
	48V system	DC65V	DC65V	
	96Vsystem	DC125V	DC125V	
Max DC Voltage	12V/24V/48V system	DC160V		
	96Vsystem	DC300V		

	12V/24V/48V system	DC150		
Input Overvoltage Protection Point	96Vsystem	DC300V		
Innut Overveltage Recovery Reint	12\//24\//48\/ system	DC145V		
Input Overvoltage Recovery Point	96Vsystem	DC295V		
Max. PV Power	12V system	280W	450W	
	24V system	560W	850W	
	48V system	1120W	1700W	
	96Vsystem	2240W	3400W	
Output Characteristics	1			
Selectable Battery Types (Default type is GEL battery)	1	(Other types of the ba	ted, Gel, NiCd battery atteries also can be defined)	
Constant Voltage	12V/24V/48V/96Vsystem	Please check the charge voltage according to the battery		
Floating Charge Voltage	12V/24V/48V/96Vsystem	type form.		
Over Charge Protection Voltage	12V system	14.6V		
	24V system 48V system	29.2V 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	SSA	
Temperature Compensation	12V/24V/48V/96Vsystem			
Output Ripples(peak)	12V/24V/48V/96Vsystem	14.2V-(The highest temperature-25°C)*0.3 200mV		
Output Voltage Stability Precision	12V/24V/48V/96Vsystem	≤±1.5%		
Display	12 V/2 + V/+0 V/50 V5 y5tcm	<u> </u>		
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		, , , , , , , , , , , , , , , , , , , ,	Call and A	
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		
Temperature Protection		long term Short-circuit 95°C		
Temperature protection		Above 85°C,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°C		
Smell		No peculiar smell and and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride		
Environment Protection Physical		prieet the 2002/95/EC,	no caumum nyunue and nuonde	
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	
Altitude				
Altitude Operating Temperature		-20°C ~ +40°C		
Altitude				











The Figures of the PC Firmware and Testing Software

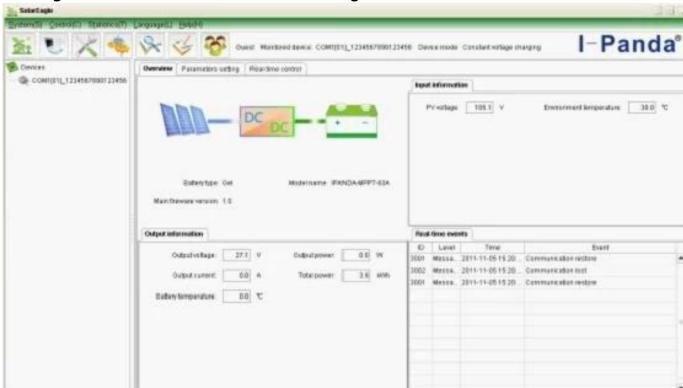


Figure 1: PC Firmware

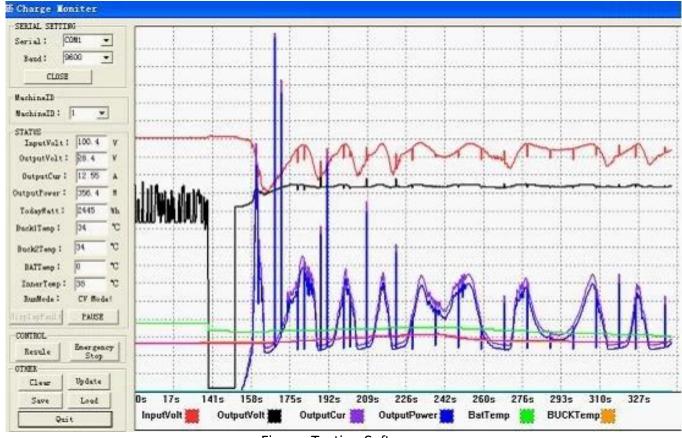


Figure: Testing Software

