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 Tl28035 chip, make the Solar panels utilization rate upto 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 system auto recognize for easy control.
- 8. Nominal maximum solar input is DC 150V
- 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-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 re	cognition			
System Voltage	12V system	DC9V~DC15V				
	24V system	DC18V~DC30V				
	48Vsystem	DC36V~DC60V				

	12\//24\//49\/cycto					
Soft Start Time	12V/24V/48Vsyste m	S105				
Dynamic Response Recovery Time	12V/24V/48Vsyste m	500us				
Conversion Efficiency	12V/24V/48Vsyste m	290.5%,599%				
PV Modules Utilization Rate	12V/24V/48Vsyste m	≥99%				
Input Characteristics	311					
input characteristics	12V system	DC18V~DC150V				
MPPT Working Voltage and Range	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				
Low voitage input Recovery Foint	24V system	DC34V				
	48V system	DC65V				
Mari DC Valtana	12V/24V/48V	DC1C0V				
Max DC Voltage	system	DC160V				
Input Overvoltage Protection Point	12V/24V/48V system	DC150V				
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V				
	12V system	570W	700W	900W		
Max. PV Power	24V system	1130W	1400W	1700W		
	48V system	2270W	2800W	3400W		
Output Characteristics						
Selectable Battery Types (Default type is	s 12V/24V/48Vsvste	Sealed lead acid ven	ted Gel NiCd hatter	V		
GEL battery)	m	(Other types of the ba				
	12V/24V/48V	(other types of the bi	accords also can be o	ieimed)		
Constant Voltage	system					
	12V/24V/48V	Please check the charge voltage according to the battery type form.				
Floating Charge Voltage		IOIII.				
	system	1461				
C. Change Barbard's Walter	12V system	14.6V				
Over Charge Protection Voltage	24V system	29.2V				
	48V system	58.4V				
Rated Output Current	12V/24V/48V	40A	50A	60A		
nacea oacpac carrent	system	1071	30/1	00/1		
Current-limiting Protection	12V/24V/48V	44A	55A	66A		
Current-inniting Protection	system	444	JJA	OOA		
Tomporatura Factor	12V/24V/48V	±0.020/.00C				
Temperature Factor	system	±0.02%/°C				
	12V/24V/48V	1.4.0\/./ T	2500/40 3			
Temperature Compensation	system	14.2V-(The highest te	mperature-25°C)*0.3)		
Output Ripples(peak)	12V/24V/48V system	200mV				
Output Voltage Stability Precision	12V/24V/48V	≤±1.5%				
	system					
Display		Input output parage	or and cutnut navia-	otc		
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				
Protection		Chack the innut cha-	octorictics			
Input Low Voltage Protection		Check the input characteristics				
Input Overvoltage Protection		Check the input characteristics				
Input Polarity Reversal Protection		yes Chack the output characteristics				
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°C				
Temperature protection			Above 85°C, decrease the output power, decrease 3A per degree.			
Other Parameters		, wore of carellease	the output power, de	ercuse on per degree.		
***************************************		≤40dB				
Noise		≥40UD				

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.		
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°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











The Figures of the PC Firmware and Testing Software

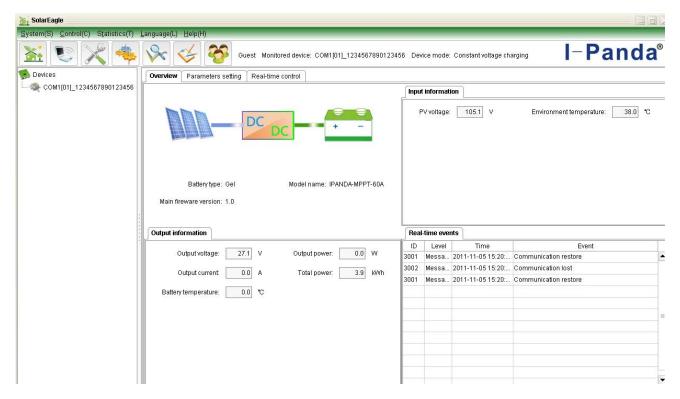


Figure 1: PC Firmware

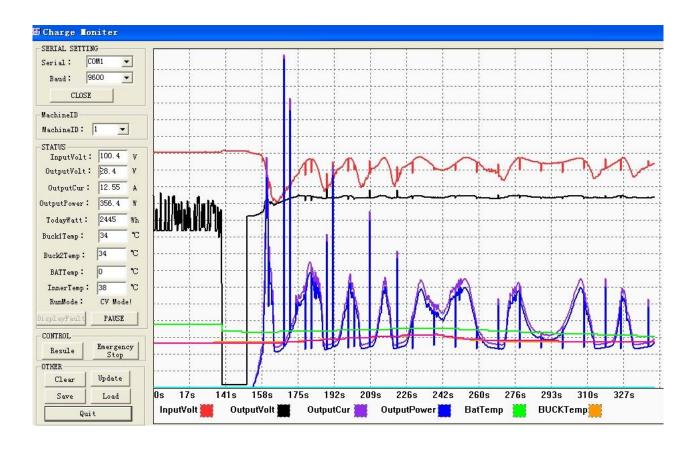


Figure: Testing Software



Package

