Introduction:

This is a smart solar charge controller which has advanced MPPT technology .Solar charge controller is one of the important parts in the off-grid solar system. For having the advanced MPPT technology, the controller can trace the peak power with 99% conversion efficiency. MPPT microprocessor, inside the controller making 30% more charge current with significantly less power than tradition. In addition to this, easier installing and supporting to expand volume are other advantages. It can also store energy to different kinds of batteries. We provide battery choice(Vented Sealed Gel NiCd).

Parameter:

Model:I-P-MSC-DC12V/24V/48V-series		40A	50A	60A
Charge Mode	Maximum Power Poir			
Method		MPPT),constant voltage,flo	nating charge	
System Type	DC12V/24V/48V	Automatic recognition		
Bystein Type		DC9V~DC15V		
System Voltage	12V system			
	24V system	DC18V~DC30V		
	48Vsystem	DC36V~DC60V		
Soft Start Time	12V/24V/48Vsystem	≤10S		
Dynamic Response	12V/24V/48Vsystem	500us		
Recovery Time	12 V/24 V/40 V 3 y 3 LC I I I	500us		
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%		
PV Modules Utilization Rate	12V/24V/48Vsystem	≥99%		
Input Characteristics				
	12V system	DC18V~DC150V		
MPPT Working Voltage and Range	24V system	DC34~DC150V		
· · · · · · · · · · · · · · · · · · ·	48V system	DC65~DC150V		
	12V system	DC16V		
Low Valtage Input Protesties Deist	24V system	DC30V		
Low Voltage Input Protection Point				
	48V system	DC60V		
Low Voltage Input Recovery Point	12V system	DC22V		
Low voitage input Recovery Point	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		
input overvoltage recovery rome	12V system	570W	700W	900W
Max. PV Power				
	24V system	1130W	1400W	1700W
Outro t Characteristics	48V system	2270W	2800W	3400W
Output Characteristics Selectable Battery Types (Default type is GEL		Social load acid, yented	Gol NiCd battony	
battery)	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)		
Constant Voltage	12\//24\//49\/ systom	(Other types of the batteries also can be defined)		
	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 temp	erature-25°C)*0 3	
Output Ripples(peak)	12V/24V/48V system	200mV	crutare 25 c, 0.5	
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%		
Display		land a trade a secondar	and and an experience about	
LCD display		Input, output parameter a		
		(check the LCD display in		1 - P - L 1
LED display		3 LEDs indicates:Fault in		ate light,power source
		indicate light(check the l		
Software Control through PC(communication po	ort)	RS232 (matching) or LAN	I(optional)	
Protection				
Input Low Voltage Protection		Check the input characte		
nput Overvoltage Protection		Check the input characte	eristics	
Input Polarity Reversal Protection		yes		
Output Overvoltage Protection		Check the output charac	teristics	
Output Polarity Reversal Protection		yes		
		Recover after eliminating the Short-circuit fault,no problem for long term		
Short-circuit Protection		Short-circuit		
Temperature Protection		95℃		
Temperature protection		Above 85°C,decrease the output power,decrease 3A per degree.		
Other Parameters		, 2010 00 Gracer cube the	aspas porrei jacci casc	
Noise		≤40dB		
110130		Forced air cooling,fan sp	eed rate regulated by to	mnerature when inner
Thermal methods		temperature is too low,fa		
		working,fan also stop rar		an controller stop
		working, ian also stop fal	lı .	

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 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.











Top Input Accessories

The Figures of the PC Firmware and Testing Software

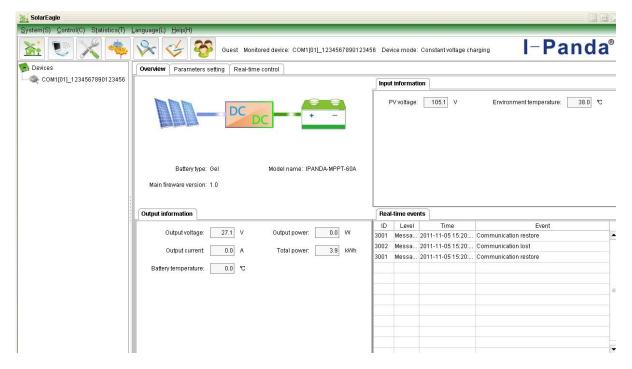


Figure 1: PC Firmware

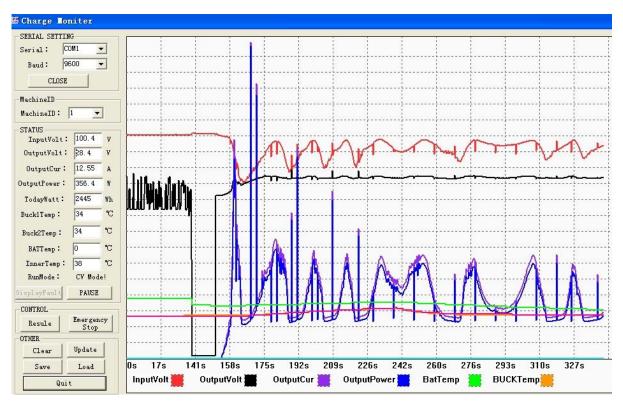


Figure: Testing Software

