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 Poin	t Tracking				
Method		harge(MPPT),constant voltage,floating charge				
System Type	DC12V/24V/48V	Automatic recognition				
	12V system	DC9V~DC15V				
System Voltage	24V system	DC18V~DC30V				
	48Vsystem	DC36V~DC60V				
Soft Start Time	12V/24V/48Vsystem	≤10S				
Dynamic Response						
Recovery Time	12V/24V/48Vsystem	500us				
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%				
PV Modules Utilization Rate	12V/24V/48Vsystem	≥99%				
Input Characteristics	12)/	DC10V DC1F0V				
	12V system	DC18V~DC150V				
MPPT Working Voltage and Range	24V system	DC34~DC150V				
	48V system	DC65~DC150V				
	12V system	DC16V				
Low Voltage Input Protection Point	24V system	DC30V				
	48V system	DC60V				
	12V system	DC22V				
Low Voltage 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 necovery form	12V system	570W	700W	900W		
Max. PV Power	24V system	1130W	1400W	1700W		
	48V system		2800W	3400W		
Output Characteristics	40V System	2270W	ZOUUVV	3400W		
Selectable Battery Types (Default type is GEL		Englad land acid wante	ad Cal NiCd battar			
	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)				
battery)	12\//24\//40\/ avet	Comer types of the bat	reiles also call be c	Jenneu)		
Constant Voltage	12V/24V/48V system	Please check the charg	ge voltage according	g 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%/°C				
Temperature Compensation		14.2V-(The highest ten	nperature-25°C)*0.3	3		
Output Ripples(peak)	12V/24V/48V system	200mV				
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%				
Display	, ., ,					
		Input,output paramete	r and output nower	etc		
LCD display		(check the LCD display				
		3 LEDs indicates:Fault indicate light, charge indicate light, power source				
LED dicplay				indicate light(check the LED instruction)		
LED display				3 //		
	nrt)	indicate light(check the	e LED instruction)	, , , , , , , , , , , , , , , , , , ,		
Software Control through PC(communication po	ort)		e LED instruction)			
Software Control through PC(communication por Protection	ort)	indicate light(check the RS232 (matching) or L	e LED instruction) AN(optional)			
Software Control through PC(communication por Protection Input Low Voltage Protection	ort)	indicate light(check the RS232 (matching) or La Check the input charact	e LED instruction) AN(optional) cteristics			
Software Control through PC(communication por Protection Input Low Voltage Protection Input Overvoltage Protection	ort)	indicate light(check the RS232 (matching) or L Check the input charac Check the input charac	e LED instruction) AN(optional) cteristics			
Software Control through PC(communication propertion in the Protection input Low Voltage Protection input Overvoltage Protection input Polarity Reversal Protection input Polarity Reversal Protection input Polarity Reversal Protection	ort)	indicate light(check the RS232 (matching) or La Check the input charac Check the input charac yes	e LED instruction) AN(optional) cteristics cteristics			
Software Control through PC(communication properties of the Protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection	ort)	indicate light(check the RS232 (matching) or La Check the input charac Check the input charac yes Check the output charac	e LED instruction) AN(optional) cteristics cteristics			
Software Control through PC(communication properties of the Protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection	ort)	indicate light(check the RS232 (matching) or La Check the input charac Check the input charac yes Check the output charac yes	e LED instruction) AN(optional) cteristics cteristics acteristics			
Software Control through PC(communication protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection	ort)	check the input characters (Check the input characters) check the input characters (Check the input characters) check the output characters (Check the output characters) character	e LED instruction) AN(optional) cteristics cteristics acteristics	fault,no problem for long term		
Software Control through PC(communication proportion) Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection	ort)	check the input character (Check the input character) check the input character (Check the input character) check the output character (Check the output character) check the output character (Check the output character) check the output character) check the output character (Check the output character) character (Check the outpu	e LED instruction) AN(optional) cteristics cteristics acteristics			
Software Control through PC(communication protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Temperature Protection	ort)	indicate light(check the RS232 (matching) or La Check the input charac yes Check the output charac yes Recover after eliminati Short-circuit	e LED instruction) AN(optional) cteristics cteristics acteristics ing the Short-circuit	fault,no problem for long term		
Software Control through PC(communication protection nput Low Voltage Protection nput Overvoltage Protection nput Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Femperature Protection Femperature Protection	ort)	check the input character (Check the input character) check the input character (Check the input character) check the output character (Check the output character) check the output character (Check the output character) check the output character) check the output character (Check the output character) character (Check the outpu	e LED instruction) AN(optional) cteristics cteristics acteristics ing the Short-circuit	fault,no problem for long term		
Software Control through PC(communication protection nput Low Voltage Protection nput Overvoltage Protection nput Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Femperature Protection Femperature Protection	ort)	indicate light(check the RS232 (matching) or La Check the input charac yes Check the output charac yes Recover after eliminati Short-circuit	e LED instruction) AN(optional) cteristics cteristics acteristics ing the Short-circuit	fault,no problem for long term		
Software Control through PC(communication protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Temperature Protection Temperature protection Other Parameters	ort)	indicate light(check the RS232 (matching) or La Check the input charac yes Check the output charac yes Recover after eliminati Short-circuit	e LED instruction) AN(optional) cteristics cteristics acteristics ing the Short-circuit	fault,no problem for long term		
Software Control through PC(communication propertion Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection	ort)	indicate light(check the RS232 (matching) or La Check the input character check the input character check the output character check the output character short-circuit 95°C, Above 85°C, decrease the S40dB	e LED instruction) AN(optional) cteristics cteristics acteristics ing the Short-circuit the output power, de	fault,no problem for long term		
Software Control through PC(communication protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Temperature Protection Temperature protection Other Parameters	ort)	indicate light(check the RS232 (matching) or Lack the input character check the input character check the input character check the output character syes Recover after elimination short-circuit 95°C Above 85°C,decrease to 40dB Forced air cooling,fan s	e LED instruction) AN(optional) steristics steristics acteristics ing the Short-circuit she output power,de	fault,no problem for long term		

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℃ ~ +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

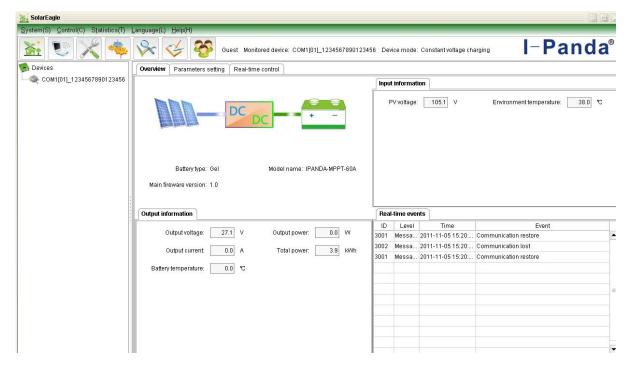


Figure 1: PC Firmware

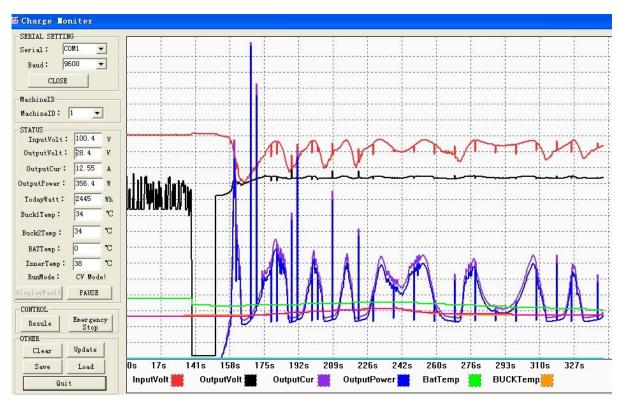


Figure: Testing Software



