Feature:

- 1. MPPT charge mode, conversion efficiency upto 99%, can save $30\% \sim 60\%$ of the power than traditional controller.
- 2. With high efficient MPPT operation scheme and adopting TI28035 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 char	ge(MPPT),constant v	oltage,floating cha	rge	
System Type	DC12V/24V/48V	Automatic recognition	on		
	12V system	DC9V~DC15V			
System Voltage	24V system	DC18V~DC30V			
	48Vsystem	DC36V~DC60V			
Soft Start Time	12V/24V/48Vsyste m	≤105			
Dynamic Response Recovery Time	12V/24V/48Vsyste m				
Conversion Efficiency	12V/24V/48Vsyste m				
PV Modules Utilization Rate	12V/24V/48Vsyste m	≥99%			
Input Characteristics					
	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	ů				
	48V system	DC60V			
Low Voltage Input Recovery Point	12V system	DC22V			
Low voitage input necovery 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		
	12V system	570W	700W	900W
Max. PV Power	24V system	1130W	1400W	1700W
	48V system	2270W	2800W	3400W
Output Characteristics	10 v by bucin	227011	200011	510011
Selectable Battery Types (Default typis GEL battery)	oe 12V/24V/48Vsys m		cid, vented, Gel, NiC of the batteries also (
•	12V/24V/48V	(Constant of Post		
Constant Voltage	system	Please check	the charge voltage a	ccording to the battery type
Floating Charge Voltage	12V/24V/48V system	form.		
	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
Rated Output Current	system	TOA	JUA	OOA
Current-limiting Protection	12V/24V/48V system	44A	55A	66A
Temperature Factor	12V/24V/48V	±0.02%/°C		
τοπήρετατατε τ.αρτήτ	system			
Temperature Compensation	12V/24V/48V	14.2V-(The hi	ighest temperature-2	5°C)*0.3
1	system		J	,
Output Ripples(peak)	12V/24V/48V system	200mV		
Output Voltage Stability Precision	12V/24V/48V	≤±1.5%		
	system			
Display		Innut outnut	naramatar and authu	t nowar ata
LCD display		(check the LC	parameter and outpu CD display instruction	1)
LED display			ates:Fault indicate lig	ght,charge indicate check the LED instruction)
Software Control through PC(commu	nication nort)		hing) or LAN(optiona	
Protection	incation port)	prozoz (mater	ining) of LAN(optiona	1)
Input Low Voltage Protection		Check the inr	out characteristics	
Input Overvoltage Protection			out characteristics	
Input Polarity Reversal Protection		yes	,	
Output Overvoltage Protection			tput characteristics	
Output Polarity Reversal Protection		ves	- <u>F</u>	
<u> </u>		0	eliminating the Shor	rt-circuit fault,no problem
Short-circuit Protection		for long term		,
Temperature Protection		95℃		
-		Above 85°C,d	ecrease the output p	ower,decrease 3A per
Temperature protection		degree.		
Other Parameters				
Noise		≤40dB	1	
Thermal methods		temperature,		ure is too low,fan ran slowly
		World brand	raw materials. Comp	ing,fan also stop ran. liance with EU standards.All
Components		rated temperated 105°C	ature of electrolytic (capacitors not less than
Smell			mell and and toxic su	ibstances.
Environment Protection				hydride and fluoride
Physical		1111111111	, , , , , , , , , , , , , , , , , , , ,	<u> </u>
Measurement DxWxH(mm)		270*185*90		
N.G(kg)		3		
G.N(kg)		3.6		
Color		Blue/Green (c	optional)	
Safety		CE,RoHS, PS	E,FCC	
EMC		EN61000		
Type of Mechanical Protection		IP21		
Environment				
Humidity	0~90%	6RH (no conden	se)	

Altitude	0~3000m
Operating Temperature	-20°C ~ +40°C
Storage Temperature	-40°C ~ +75°C
Atmospheric Pressure	70~106kPa

Note: We provide OEM and ODM service. The 36V/72V/96V model also can be custom made for you. Product Parts:

NO.	Quantity	Description
1	1 unit	Charge controller
2	2 pc	Terminals
3	2 pc	Gallow pulley
		(For install the controller on the wall)
4	4 set	Screw
		(For install the controller on the wall)
5	1 pc	232 turn to RJ45 communication cable
6	1 pc	User manual
7	1 pc	Temperature sensing wire
8	2 pc	Fuse wire



Upper Computer Software and Test Software

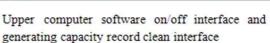


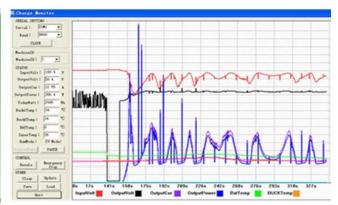


The interface of upper computer software working state

The interface of upper computer software parameter setting state







The interface of test software working state

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 \square technical documents \square product manual .