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 Tl28035 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	
	24V system	DC18V~DC30V	
	48Vsystem	DC36V~DC60V	
	96Vsystem	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			
	12V system	DC18V~DC150V	
MDDT Working Voltage and Dange	24V system	DC34~DC150V	
MPPT Working Voltage and Range	48V system	DC65~DC150V	
	96Vsystem	DC125~DC300V	
	12V system	DC16V	
Low Voltage Input Protection Point	24V system	DC30V	
	48V system	DC60V	
	96Vsystem	DC120V	
Low voltage input Recovery Point	12V system	DC22V	
	24V system	DC34V	
	48V system	DC65V	
	96Vsystem	DC125V	
Max DC Voltage	12V/24V/48V system	DC160V	
	96Vsystem	DC300V	
Input Overvoltage Protection Point	12V/24V/48V system	DC150	
	96Vsystem	DC300V	
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V	
	96Vsystem	DC295V	

Max. PV Power		12V system	280W	450W		
Max. PV Power ABV System 1120W 3400W 3400W 360System 2240W 3400W 3400W 360System 2240W 3400W 360SECEATABLE BATTERY Types (Default byte) 12V/24V/48V/96Vsystem 562ECEATABLE BATTERY Types (Default byte) 12V/24V/48V/96Vsystem 562ECEATABLE STATES 562ECEAT						
District Characteristics	Max. PV Power					
Dunut Characteristics						
Selectable Battery Types (Default type is GE) Labitary	Output Characteristics	96VSystem	224000	3400W		
Sype is GEL batteriy 1.70/14/14/01/99/05/95/14/01 Constant Voltage 1.20/14/14/09/96/05/95/14/05/96/05/95/05 1.20/14/14/09/96/05/95/05/05/05/05/05/05/05/05/05/05/05/05/05	•		Casled land said wanted Cal	NiCd battom		
Constant Voltage 12V/24V/88V/96Vsystem Please check the charge voltage according to the Floating Charge Voltage 12V/24V/88V/96Vsystem Please check the charge voltage according to the Floating Charge Voltage 12V system 14.6V 24V system 29.2V 24V system 29.2V 24V system 38.4V 96V system 30A 22V/24V/88V/96Vsystem 25A 35A 22V/24V/88V/96Vsystem 26A 35A 22V/24V/88V/96Vsystem 4.2V/CThe highest temperature-25°C)*0.3 22V/24V/88V/96Vsystem 4.2V/CThe highest temperature-25°C)*0.3 22V/24V/88V/96Vsystem 2.2V 20V/24V/88V/96Vsystem 2.2V 2.2V 20V/24V/48V/96Vsystem 2.2V 20V/24V/48V/96Vsystem 2.2V 20V/24V/48V/96Vsystem 2.2V 20V/24V/48V/96Vsystem 2.2V 20V/24V/48V/96Vsystem 2.2V 20V/24V/48V/96Vsystem 2.2		12V/24V/48V/96Vsystem				
Institute Inst		12)//24)//49)//06)/systom				
Over Charge Protection Voltage 24/ System 29.2V				age according to the		
24V system 29.2V	Floating Charge Voltage	-	* * * *			
ABV system S8.4 W 96V system 116.8V						
BoV system 36.49 30.4	Over Charge Protection Voltage					
Rated Output Current 12V/24V/48V/96Vysystem 20A 25A Current-limiting Protection 12V/24V/48V/96Vysystem ±0.0%/°C Temperature Factor 12V/24V/48V/96Vysystem ±0.0%/°C Temperature Compensation 12V/24V/48V/96Vysystem ±0.0%/°C Temperature Stability Precision 12V/24V/48V/96Vysystem ±1.5% Display Output Voltage Stability Precision 12V/24V/48V/96Vsystem ±1.5% Display LCD display LCD display LCD display Input.output parameter and output power etc (check the LCD display instruction) 3 LEDs indicates:Fault indicate light,charge indicate light, power source indicate light (check the LED instruction) 3 LEDs indicates:Fault indicate light,charge indicate light value of the power source indicate light (check the LED instruction) Software Control through PC(communication port) RSS232 (matching) or LAN(optional) Resease Resease Rese						
Current-limiting Protection 12V/24V/48V/96Vsystem 25A 35A Temperature Factor 12V/24V/48V/96Vsystem 20.02%/*C Temperature Compensation 12V/24V/48V/96Vsystem 42.2V-(The highest temperature-25°C)*0.3 Output Ripples(peak) 12V/24V/48V/96Vsystem 20mV Output Voltage Stability Precision 12V/24V/48V/96Vsystem 20mV Output Voltage Stability Precision 12V/24V/48V/96Vsystem ≤±1.5% Display Input,output parameter and output power etc (check the LCD display instruction) 3 LEDs indicates:Fault indicate light, charge indicate light. LED display Scatter 1 light. power source indicate light(check the LED instruction) Software Control through PC(communication port) RS232 (matching) or LAN(optional) Protection				la a .		
Temperature Factor 12V/24V/48V/96Vsystem ±0.02%/²C Temperature Compensation 12V/24V/48V/96Vsystem ±1.2V·The highest temperature-25°C)*0.3 Output Ripples(peak) 12V/24V/48V/96Vsystem ≥0.0V Output Voltage Stability Precision 12V/24V/48V/96Vsystem ≥±1.5% Display Input,output parameter and output power etc (check the LCD display instruction) 3 LEDS indicates:Fault indicate light,charge indicate light. LED display Input,output parameter and output power etc (check the LCD display instruction) 3 LEDS indicates:Fault indicate light,charge indicate light. LED display Input, output parameter and output power etc (check the LCD display instruction) 3 LEDS indicates:Fault indicate light,charge indicate light. LED display Input, output parameter and output power etc (check the LCD display instruction) 3 LEDS indicates:Fault indicate light,charge indicate light. LED display Input, output parameter and output power etc (check the LCD display instruction) 3 LEDS indicates:Fault indicate light,charge indicate light. LED display Input, output parameter and output power etc (check the LCD display instruction) 3 LEDS indicates:Fault indicate light,charge indicate light. LED display Input, output parameter and output power etc (check the LCD display instruction) 1 LEDS indicates:Fault indicate light,charge indicate ligh	-	-				
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Safety CE,RoHS, PSE,FCC ENCLOSED ENCLOS						
EMC EN61000	Color					
Type of Mechanical Protection IP21						
	Type of Mechanical Protection		IP21			

Environment	
Humidity	0~90%RH (no condense)
Altitude	0~3000m
Operating Temperature	-20°C ~ +40°C
Storage Temperature	-40°C ~ +75°C
Atmospheric Pressure	70~106kPa











Figure: Testing Software

System

