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 TI28035 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/96	V-series	20A	30A
Charge Mode	Maximum Power Point Tracking	ł	·
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			
MPPT Working Voltage and Range	12V system	DC18V~DC150V	
	24V system	DC34~DC150V	
	48V system	DC65~DC150V	
	96Vsystem	DC125~DC300V	
Low Voltage Input Protection Point	12V system	DC16V	
	24V system	DC30V	
	48V system	DC60V	
	96Vsystem	DC120V	
	12V system	DC22V	
Low Valtage Input Decovery Deint	24V system	DC34V	
Low Voltage Input Recovery Point	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	

	12V/24V/48V system	DC145V	
Input Overvoltage Recovery Point	96Vsystem	DC295V	
	12V system	280W 450W	
	24V system	560W 850W	
Max. PV Power	48V system	1120W 1700W	
	96Vsystem	2240W 3400W	
Output Characteristics	Jovsystem		
Selectable Battery Types (Default		Sealed lead acid, vented, Gel, NiCd battery	
type is GEL battery)	12V/24V/48V/96Vsystem	(Other types of the batteries also can be defined)	
Constant Voltage	12V/24V/48V/96Vsystem	Please check the charge voltage according to the battery	
Floating Charge Voltage	12V/24V/48V/96Vsystem	type form.	
ribating charge voltage	12V system	14.6V	
	24V system	29.2V	
Over Charge Protection Voltage	48V system	58.4V	
	96V system	116.8V	
Rated Output Current	12V/24V/48V/96Vsystem	20A 30A	
Current-limiting Protection	12V/24V/48V/96Vsystem	25A 35A	
		±0.02%/°C	
Temperature Factor	12V/24V/48V/96Vsystem		
Temperature Compensation	12V/24V/48V/96Vsystem	14.2V-(The highest temperature-25°C)*0.3	
Output Ripples(peak)	12V/24V/48V/96Vsystem	200mV	
Output Voltage Stability Precision	12V/24V/48V/96Vsystem	≤±1.5%	
Display			
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(comr	munication port)	RS232 (matching) or LAN(optional)	
Protection			
Input Low Voltage Protection		Check the input characteristics	
Input Overvoltage Protection		Check the input characteristics	
Input Polarity Reversal Protection		Ves	
Output Overvoltage Protection		Check the output characteristics	
Output Polarity Reversal Protection		ves	
		Recover after eliminating the Short-circuit fault, no problem	
Short-circuit Protection		for	
Temperature Protection		long term Short-circuit 95°C	
Temperature protection		Above 85°C,decrease the output power,decrease 3A per	
		degree.	
Other Parameters		< 40dD	
Noise		≤40dB	
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		0704105400	
Measurement DxWxH(mm)		270*185*90	
N.G(kg)		3	
G.N(kg)		3.6	
Color		Blue/Green (optional)	
		CE,RoHS, PSE,FCC	
Safety			
EMC		EN61000	
EMC Type of Mechanical Protection			
EMC Type of Mechanical Protection Environment		EN61000 IP21	
EMC Type of Mechanical Protection Environment Humidity		EN61000 IP21 0~90%RH (no condense)	
EMC Type of Mechanical Protection Environment Humidity Altitude		EN61000 IP21 0~90%RH (no condense) 0~3000m	
EMC Type of Mechanical Protection Environment Humidity Altitude Operating Temperature		EN61000 IP21 0~90%RH (no condense) 0~3000m -20°C ~ +40°C	
EMC Type of Mechanical Protection Environment Humidity Altitude		EN61000 IP21 0~90%RH (no condense) 0~3000m	



Accessor

The Figures of the PC Firmware and Testing Software

Constant Con	Ownerse Parameters setting Programme control					
		Read Information				
	Edentitie Gel Modelname FANDANEPT-61A Namifikewarversam 12	PV-sollage [109.1] V Environment kompanatures [38.0] 1				
	Outpat information	Real-time events	_			
	OutrativeTage: 27.1 V Outputpower 0.0 W	© Level Tene Event				
		1001 Massa, 2011-11-051520, Converses also restore 1002 Messa, 2011-11-051520, Converses also inst				
	Output summer: 0.0 A Total power: 2.8 MMH	1001 Messa 2011-11-051520 Communication rentime				
	Ballery temperature 8.0 °C					
			- 1			

Figure 1: PC Firmware

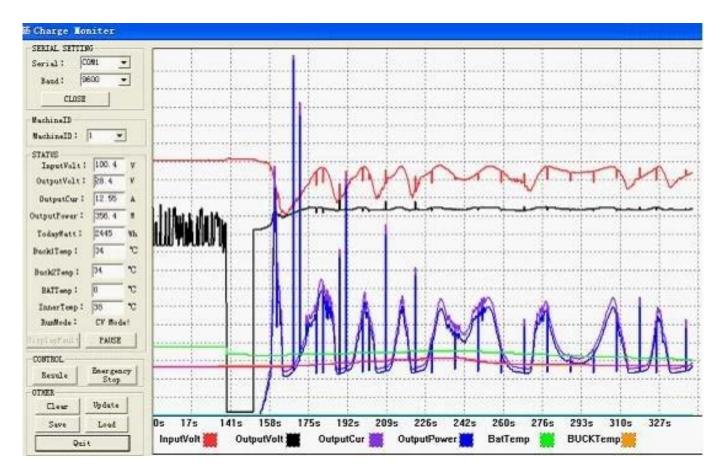


Figure: Testing Software

