# Introduction

This is a <u>solar charge controller 40A ~60A</u> that have automatic max. power point tracking function with high efficiency that almost 30%~60% higher than traditional charge controller. It also features the functions of system voltage auto recognition, wide rang of PV input ,charge for all kinds of battery,automatic discharge control,RS 232 / LAN communication function and so on. It is very high-end product for solar market with its best partner <u>I-P-TPI2 model Inverter/Charger/UPS</u>.







### **Features**

- 1. MPPT charge mode, conversion efficiency upto 99%
- 2. 12V/24V/48V system auto recognize;
- 3. Wide range of PV input with max. is DC150V.
- 4. Unlimited parallel connection
- 5. Journal function , Save function set ,Date ,time ,Generating capacity and so on .
- 6.Charge mode: three stages (fast charge ,constant charge ,floating charge) .lt prolongs service life of the batteries .
- 7.Discharge mode: ON/OFF mode, double time control mode,PV voltage control mode ,PV voltage+time delay mode and so on .
- 8.Recommended battery types: sealed lead acid, vented, gel, NiCd battery. Other types of the batteries can also be defined.
- 9.Most information could be provide by LCD and LED like: model no.,PV input voltage,battery type,battery voltage,charging current,charging power,working status and so on. Also customer's information like company name,website and logo can be added into Solar Eagle software.
- 10.RS232 and LAN communication port. IP and Gate address could be user define it satisfy global area. And communication protocol can be provided to help customer manage all information .
- 11.The upper computer software is displayed in 11 languages, it could show work status and set parameters of the discharge system.
- 12. With intelligent design, the device can be upgraded online lifelong.
- 13.Adopting the well-known brand components, the devices can suffer the temperature not less than 105°C. The service life is designed to use for 10 years in theory.
- 14. Compliance with the 2002/95/EC environment protecting demand, doesn't include the Cadmium, hydride and fluoride etc material

 $15. Equipment\ integrity:\ controller\ +\ CD-ROM(microcomputer\ software)\ +\ communication\ wire\ +\ temperature\ sensing\ wire+Anderson\ terminals;$ 

 ${\bf 16.CE, ROHS\ certifications\ approved}.$ 

## **Parameter**

		to.	
Model:I-P-SMART2-40A/50A/60A -series Charge Mode	Maximum Device Delic	40A 50A 60A	
Charge Mode Method	Maximum Power Poin		
Method System Type	3 stages: fast charge( DC12V/24V/48V	(MPPT), constant voltage, floating charge	
System Type		Automatic recognition	
Custom Valtana	12V system	DC9V~DC15V	
System Voltage	24V system	DC18V~DC30V	
Coff Chart Time	48Vsystem	DC36V~DC60V	
Soft Start Time	12V/24V/48Vsystem	≤10S	
Dynamic Response	12V/24V/48Vsystem	500us	
Recovery Time		05.50/ -000/	
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%	
PV Modules Utilization Rate	12V/24V/48Vsystem	≥99%	
Input Characteristics	12)/	DC10V_DC1F0V	
MDDT Westing Veltages and Decree	12V system	DC18V~DC150V	
MPPT Working Voltage and Range	24V system	DC34~DC150V	
	48V system	DC65~DC150V	
Law Valle and Israel Bush at law Ballat	12V system	DC16V	
Low Voltage Input Protection Point	24V system	DC30V	
	48V system	DC60V	
Low Voltage Input Recovery Point	12V system	DC22V	
	24V system	DC34V	
	48V system	DC65V	
Max DC Voltage	12V/24V/48V system		
Input Overvoltage Protection Point	12V/24V/48V system		
Input Overvoltage Recovery Point	12V/24V/48V system		
Mary DV Davids	12V system	570W 700W 900W	
Max. PV Power	24V system	1130W 1400W 1700W	
	48V system	2270W 2800W 3400W	
Output Characteristics	1 2) //2 A) // C) /	Coded by Jordan Col. N'College	
Selectable Battery Types (Default type is GEL battery)	12V/24V/48V	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)	
	system	(Other types of the batteries also can be defined)	
Constant Voltage	12V/24V/48V system	Please check the charge voltage according to the battery type form.	
Floating Charge Voltage	12V/24V/48V system		
O Channe Burkaskian Walkana	12V system	14.6V	
Over Charge Protection Voltage	24V system	29.2V	
	48V system	58.4V	
Rated Output Current	12V/24V/48V system		
Current-limiting Protection	12V/24V/48V system		
Rate charge current	12V/24V/48V System		
Temperature Factor	12V/24V/48V system		
Temperature Compensation		14.2V-(The highest temperature-25°C)*0.3	
Output Ripples(peak)	12V/24V/48V system		
Output Voltage Stability Precision	12V/24V/48V system		
Charge voltage Peak-Peak Ripple	12V/24V/48V System		
Charger voltage accuracy	12V/24V/48V System	SI1.3%	
Discharge characteristic			
Discharge characteristic Setting Control	Controller or	r LAN	
Discharge characteristic Setting Control Max discharge current	Controller or 12V/24V/48V System	r LAN 40A	
Discharge characteristic Setting Control Max discharge current Discharge protection	Controller or 12V/24V/48V System 12V/24V/48V System	r LAN 40A fuse 30A*2	
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Discharge characteristic  Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage ontrol PV voltage / time delay control Discharge voltage protection Communication Features RS232 Communication LAN Communication Protection Input Low Voltage Protection Input Dovervoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Output Polarity Reversal Protection Temperature Protection Temperature protection Temperature protection Temperature protection Other Parameters Noise Thermal methods  Components  Smell Environment Protection Physical Measurement DxWxH (mm)	Controller or 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System	I LAN  40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on∏PV voltage off PV voltage on∏time delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride	-
Discharge characteristic  Setting Control  Max discharge current  Discharge protection  Double-time control  ON / OFF mode  PV voltage ontrol  PV voltage / time delay control  Discharge voltage protection  Communication Features  R5232 Communication  LAN Communication  Protection  Input Low Voltage Protection  Input Doervoltage Protection  Input Polarity Reversal Protection  Output Overvoltage Protection  Output Polarity Reversal Protection  Temperature Protection  Temperature Protection  Temperature Protection  Temperature Protection  Temperature Protection  Temperature Protection  Cother Parameters  Noise  Thermal methods  Components  Smell  Environment Protection  Physical  Measurement DxWxH (mm)  N.G(kg)	Controller or 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System	FLAN  40A  fuse 30A*2 On in morning ,off in morning / On in night ,off in night  ON / OFF  PV voltage on □PV voltage off PV voltage on □time delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6	-
Discharge characteristic Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage ontrol PV voltage / time delay control Discharge woltage protection Communication Features RS232 Communication LAN Communication Protection Input Low Voltage Protection Input Dovervoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Temperature Protection Tempera	Controller or 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System	FLAN  40A  fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on∏PV voltage off PV voltage on∏time delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional)	-
Discharge characteristic  Setting Control  Max discharge current  Discharge protection  Double-time control  ON / OFF mode  PV voltage control  PV voltage / time delay control  Discharge voltage protection  Communication Features  RS232 Communication  LAN Communication  Protection  Input Low Voltage Protection  Input Doervoltage Protection  Input Polarity Reversal Protection  Output Overvoltage Protection  Output Polarity Reversal Protection  Temperature Pro	Controller or 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System	FLAN  40A  fuse 30A*2 On in morning ,off in morning / On in night ,off in night  M/ OFF  PV voltage on∏PV voltage off PV voltage on∏PV voltage off PV voltage on∏Ime delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication  Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran.  World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances.  Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE,FCC	-
Discharge characteristic  Setting Control  Max discharge current  Discharge protection  Double-time control  ON / OFF mode  PV voltage control  PV voltage (time delay control  Discharge voltage protection  Communication Features  R5232 Communication  LAN Communication  Protection  Input Low Voltage Protection  Input Dovervoltage Protection  Input Voervoltage Protection  Output Overvoltage Protection  Output Polarity Reversal Protection  Short-circuit Protection  Temperature Protection  Temperature Protection  Temperature Protection  Other Parameters  Noise  Thermal methods  Components  Smell  Environment Protection  Physical  Measurement DxWxH (mm)  N.G(kg)  G.N(kg)  Color  Safety  EMC	Controller or 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System	FLAN  40A  fuse 30A*2 On in morning ,off in morning / On in night ,off in night  N/OFF  PV voltage on □PV voltage off  PV voltage on □time delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication  Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran.  World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE,FCC EN61000	-
Discharge characteristic Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage ontrol PV voltage / time delay control Discharge voltage protection Communication Features RS232 Communication LAN Communication Input Low Voltage Protection Input Dovervoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Voervoltage Protection Temperature Protection Thermal methods  Components Smell Environment Protection Physical Measurement DxWxH (mm) N.G(kg) G.N(kg) Color Safety EMC Type of Mechanical Protection	Controller or 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System	FLAN  40A  fuse 30A*2 On in morning ,off in morning / On in night ,off in night  M/ OFF  PV voltage on∏PV voltage off PV voltage on∏PV voltage off PV voltage on∏Ime delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication  Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran.  World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances.  Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE,FCC	-
Discharge characteristic  Setting Control  Max discharge current  Discharge protection  Double-time control  ON / OFF mode  PV voltage control  PV voltage / time delay control  Discharge voltage protection  Communication Features  RS232 Communication  LAN Communication  Protection  Input Low Voltage Protection  Input Doervoltage Protection  Input Polarity Reversal Protection  Output Overvoltage Protection  Output Polarity Reversal Protection  Temperature Protection  Other Parameters  Noise  Thermal methods  Components  Smell  Environment Protection  Physical  Measurement DxWxH (mm)  N.G(kg)  G.N(kg)  Color  Safety  EMC  Type of Mechanical Protection  Environment	Controller or 12V/24V/48V System	FLAN  40A  fuse 30A*2 On in morning ,off in morning / On in night ,off in night  ON / OFF  PV voltage on∏PV voltage off PV voltage on∏PV voltage off PV voltage on∏Ime delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication  Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran.  World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances.  Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE, FCC EN61000 IP21	-
Discharge characteristic  Setting Control  Max discharge current  Discharge protection  Double-time control  ON / OFF mode  PV voltage control  PV voltage (time delay control  Discharge voltage protection  Communication Features  RS232 Communication  LAN Communication  Protection  Input Low Voltage Protection  Input Dovervoltage Protection  Input Voervoltage Protection  Output Overvoltage Protection  Output Overvoltage Protection  Output Polarity Reversal Protection  Font-circuit Protection  Temperature Protection  Temperature Protection  Temperature Protection  Temperature Protection  Temperature Protection  Thermal methods  Components  Smell  Environment Protection  Physical  Measurement DxWxH (mm)  N.G(kg)  G.N(kg)  Color  Safety  EMC  Type of Mechanical Protection  Environment  Humidity	Controller or 12V/24V/48V System	TLAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on □PV voltage off PV voltage on □time delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤400B Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran.  World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CCE, RoHS, PSE,FCC EN61000 IP21 It no condense)	-
Discharge characteristic  Setting Control  Max discharge current  Discharge protection  Double-time control  ON / OFF mode  PV voltage / time delay control  Discharge voltage protection  Communication Features  RS232 Communication  LAN Communication  Input Low Voltage Protection  Input Dovervoltage Protection  Input Polarity Reversal Protection  Output Overvoltage Protection  Output Overvoltage Protection  Temperature Protection  Temperature Protection  Temperature Protection  Temperature Protection  Thermal methods  Components  Smell  Environment Protection  Physical  Measurement DxWxH (mm)  N.G(kg)  G.N(kg)  G.N(kg)  Color  Safety  EMC  Type of Mechanical Protection  Environment  Humidity  Altitude	Controller or 12V/24V/48V System	r LAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on[]PV voltage off PV voltage on[]Evine delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  \$40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE,FCC EN61000 IP21  (1 no condense)	-
Discharge characteristic  Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage control PV voltage (time delay control Discharge voltage protection Communication Features RS232 Communication LAN Communication Protection Input Low Voltage Protection Input Doervoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Temperature Protection Physical Measurement DxWxH (mm) N.G(kg) G.N(kg) Color Safety EMC Type of Mechanical Protection Environment Humidity Altitude Operating Temperature	Controller or 12V/24V/48V System	TLAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on∏PV voltage off PV voltage on∏PV more delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride 270*185*90 3 3.6 Blue/Green (optional) CCE, RoHS, PSE, FCC EN61000 IP21 I (no condense)	-
Discharge characteristic  Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage control PV voltage / time delay control Discharge voltage protection Communication Features RS232 Communication LAN Communication Input Low Voltage Protection Input Low Voltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Temperature Protection Temperature Protection Temperature Protection Other Parameters Noise Thermal methods Components Smell Environment Protection Physical Measurement DxWxH (mm) N.G(kg) G.N(kg) Color Safety EMC Type of Mechanical Protection Environment Humidity Altitude	Controller or 12V/24V/48V System	r LAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on[PV voltage off PV voltage on[Dt] we delay off Output off when it under setting voltage; Factory set is 10.5 .( Note : set based on 1 battery )  Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication  Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree.  ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowl stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride  270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE,FCC EN61000 IP21 If no condense)  40°C 75°C	-

Note: OEM and ODM service are provided. 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** 



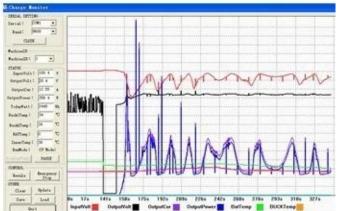


The interface of upper computer software working state

The interface of upper computer software parameter setting state



Upper computer software on/off interface and generating capacity record clean interface



The interface of test software working state

### **MPPT Connection**

