MPPT 20 - 30A HQ SOLAR CHARGE CONTROLLER



This is a solar charge controller 20A ~30A 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.

Features

- MPPT charge mode, conversion efficiency up to 99%
- 12V/24V/48V system auto recognize
- Wide range of PV input with max is DC150V
- Memory function, Save setting function: date, time, generating capacity record and so on
- Selected battery types: sealed lead acid, vented, gel, NiCd battery. Other types of the batteries can also be defined.
- RS232 and LAN communication port. IP and Gate address could be user define it satisfy global area. Communication protocol can be provided to manage all information.
- 2 years warranty. The service life is designed to use for 10 years. Extended 3~10
- · Display Led/Lcd



Other Parameters

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.
Environment Protection	World brand raw materials. Compliance with EU standards. Meet the 2002/95/EC without cadmium hydride, fluoride, peculiar smell and toxic substances.All rated temperature of electrolytic capacitors not less than 105°C
Short Circuit Protection	Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit

For Input Low Voltage Protection, Input Overvoltage Protection, Input Polarity Reversal Protection, Output Overvoltage Protection and Output Polarity Reversal Protection, Check the in/output characteristics.









MPPT SOLAR CHARGE CONTROLLER



TECHNICAL SPECI	FICATION	20A			30A	
Charge Mode		Maximum Power Point Tracking				
Discharge Mode		Intelligent control				
System Type		12V 24V 48V Automatic recognition				
Soft Start Time		≤10S				
Dynamic Response Recovery Time		500us				
Conversion Efficiency		≥96.5%,≤99%				
PV Modules Utilization Rate		≥99%				
INPUT CHARACTER						
MPPT Working	12V system	DC17V~DC150V				
Voltage and Range	24V system	DC34V~DC150V				
	48V system	DC65V~DC150V				
	96V system	DC120V~DC300V				
Max. DC Voltage		Max. DC Voltage DC160V				
Input Overvoltage Protection	n Point		DC150			
Max. PV Power	12V system	280W			450W	
	24V system	560W			850W	
	48V system	1120W			1700W	
	96V system	2240W			3400W	
CHARGE CHARACT	-					
Selectable Battery	Types	Sealed lead acid, vented, Gel, NiCd battery				
		(C	Default typ	e is GEL battery	y)	
Other types of Batte	ry Setting	Constant charg	ge	User-defined	constant/floating charge	
		Floating charge	Э	voltage range	e between DC10V~DC15	
		(based		(based on 1	pcs 12V battery)	
Battery Type Se	etting	12V/24V/48V S	12V/24V/48V SYS Controller and upper monitor		d upper monitor	
Charge Type	е	12V/24V/48V S	12V/24V/48V SYS Three Stages: Fast charge/Constant			
				charge/Floati	ing charge	
Rated Output Cu	urrent	20A			30A	
Current-limiting Protection		25A			35A	
Output Ripples(peak)		I	200mV			
Output Voltage Stability Precision		≤±1.5%				
Charge voltage Peak-Peak Ripple		200mV				
Charger voltage accuracy		≤±1.5%				
DISCHARGE CHARA						
Setting Control		Controller or LAN				
Max discharge current				30A		
Max discharge power		420W		840W	1680W	
	Discharge protection		fuse 40A*2			
Double-time control		On in morning, off in morning / On in night, off in night				
Discharge voltage protection		Output off when it under setting voltage				
		Factory set is 10.5 (Note: set based on 1 battery)				
COMMUNICATION PORT				_		
RS232 Communication		Chose COM communication				
LAN Communication		Set IP and Gate address for controller and solar eagle				
		Then chose TCP communication				
PHYSICAL	11()			2*4.05*00		
Measurement DxWxH (mm)		270*185*90				
Safety		CE, RoHS, PSE,FCC				
EMC		EN61000				
Type of Mechanical Protection		IP21				
ENVIRONMENT	0.000/ DU /no condens.					
Humidity Altitude		0~90%RH (no condense)				
		0~3000m -20°C ~ +40°C				
Operating Temperature						
Storage Temperature Atmospheric Pressure			-40°C ~ +75°C 70~106kPa			
Atmospheric Pre	/U~1UbKPa					