Introduction

This is a <u>solar charge controller</u> 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 with its best partner <u>I- P-TPI2 model Inverter/Charger/UPS.</u>

Application

- 1. Industrial, commercial, household off grid solar energy generation system
- 2. Movable off grid solar energy generation system
- 3. Communication base stations
- 4. New energy education business
- 5. Solar Monitoring System
- 6. Solar Street Lighting System

Reasons to choose

- 1. 30%-60% solar panels saved
- 1) Conversion efficiency 95%-99%, take most from solar panels
- 2) Charge for all kinds of batteries, 3 charge stage to protect battery.

Reduce consumption, cost saved.

2. Data monitor and set. Parameters from solar panels like charge current/voltage and IP gate address, total

generation power, etc can be showed. 4 kinds DC load control, automaticly save ernergy both from human and

solar.

- 3. Lan commucation and RS232 port.
- 4. Software to monitor 100pcs equipments at the same time on one screen on a computer.

Features

- 1.MPPT charge mode, conversion efficiency up to 99%
- 2.12V/24V/48V system auto recognize;
- 3. Wide range of PV input with max. is DC150V.
- 4. Memory function, Save setting function: date, time, generating capacity record and so on .
- 5. Charge mode: 3 stages (fast charge, constant charge ,floating charge) . It prolongs service life of the batteries .
- 6.Discharge mode: ON/OFF mode, double time control mode,PV voltage control mode ,PV voltage+time delay mode and so on .
- 7.Selected battery types: sealed lead acid, vented, gel, NiCd battery. Other types of the batteries can also be defined.
- 8.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.

- 9.RS232 and LAN communication port. IP and Gate address could be user define it satisfy global area. And communication protocol can be provided to manage all information.
- 10. The upper computer software is displayed in 11 languages, it could show work status and be set parameters of the discharge system.
- 11. With intelligent design, the device can be upgraded online lifelong.
- 12.Compliance with the 2002/95/EC environment protecting demand, doesn't include the Cadmium, hydride and fluoride etc material
- 13.Equipment integrity: controller + CD-ROM(microcomputer software) + communication wire + temperature sensing wire + Anderson terminals;
- 14.CE,ROHS certifications approved.
- 15.2 years warranty. The service life is designed to use for 10 years in theory. Extended 3~10 years warranty service also can be provided.

Technical Specification:

-20A/25A/30A	20A	25A	30A			
	Mayinaya Dayya	Doint Tracking				
	≤105					
Dynamic Response Recovery Time		500us				
C y	≥96.5%,≤99%					
PV Modules Utilization Rate						
STICS						
12V system	DC18V~DC150V					
24V system	DC34~DC150V					
48V system	DC65~DC150V					
12V system	DC16V					
24V system	DC30V					
48V system	DC60V					
12V system	DC22V					
24V system	DC34V					
48V system	DC65V					
	DC160V					
Input Overvoltage Protection Point						
ecovery Point	DC145V					
12V system	286W	357W	Max. PV Power			
24V system	572W	715W				
48V system	1144W	1430W				
RISTICS						
Гуреѕ	Sealed lead acid, vented, Gel, NiCd battery(Default type is GEL battery)					
Other types of Battery Setting		Constant charge User-defined constant/floating charge				
		voltage range between DC10V~DC15 (based on 1 pcs 12V battery)				
Battery Type Setting		Controller and u	pper monitor			
	Recovery on Rate STICS 12V system 24V system 12V system 24V system 48V system	Maximum Power Intelligent control 12V 24V 48V Aut ≤10S Recovery 500us Sy ≥96.5%,≤99% On Rate ≥99% STICS 12V system DC18V~DC150V 24V system DC34~DC150V 12V system DC65~DC150V 12V system DC30V 48V system DC60V 12V system DC22V 24V system DC34V 48V system DC65V DC160V rotection DC150 ecovery Point DC145V 12V system DC150 ecovery Point DC145V 12V system S72W 48V	Maximum Power Point Tracking Intelligent control 12V 24V 48V Automatic recognition ≤10S Recovery 500us ≥96.5%,≤99% 500 Rate ≥99% 5TICS 12V system DC18V~DC150V 24V system DC34~DC150V 48V system DC65~DC150V 12V system DC30V 48V system DC60V 12V system DC22V 24V system DC34V 48V system DC65V DC160V rotection DC150 ecovery Point DC145V 12V system 286W 24V system 286W 24V system 286W 24V system 286W 357W 24V system 286W 357W 24V system 357W 24V system 357W 357W 357W 357W 357W 357W 357W 357W			

Charge Type	12V/24V/48V SYS	Three Stages :Fast charge/Constant charge/Floating charge	
Rated Output Current	20A	25A	30A
Current-limiting Protection	25A	30A	35A
Temperature Factor	±0.02%/℃		
Temperature Compensation	14.2V-(The highest temperature-25°C)*0.3		
Output Ripples(peak)	200mV		
Output Voltage Stability Precision	≤±1.5%		
Charge voltage Peak-Peak Ripple	200mV		
Charger voltage accuracy	≤±1.5%		



Upper Computer Software and Test Software



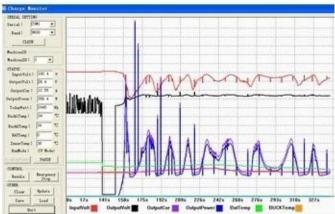


The interface of upper computer software working state

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



Certificates

ISO2008 ISO2004 CE FCC ROHS

Service and Contact

1. Warranty

1.2 years warranty, lifelong technical assistance.

2. Conditions and Terms

- 2.1 The warranty starts from the delivery date from our factory.
- 2.2 During the warranty, any defective product will get repaired or replaced for free.
- 2.3 The warranty is unavailable for those products which are broken by the violence or the carelessness or repaired or altered without the authorization.

3. Lead Time

- 3.1 Sample orders will be delivered from our factory within 5-7 working days.
- 3.2 General orders will be delivered from our factory within 7-15 working days.
- 3.3 Big orders will be delivered from our factory within 25 working days at most.

4. Shipment

- 4.1 By EMS,DHL,FedEx or other express.
- 4.2 By our forwarding agent(by air or by sea).
- 4.3 By your own forwarding agent.

5. OEM and ODM

5.1 This page shows basic data, we can provide OEM, ODM service for you.