PWM Solar Charge Controller

NC series 10A -60A
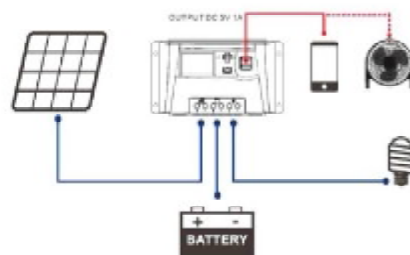

NC series 10A/20A 12V24V auto work

Installation:

Introduction:

This intelligent ,multi-purpose solar charge and discharge controller has a very friendly interface of fixed LCD display.Various control parameters can be flexibly set,fully meet your various application requirements.

Features

- Vivid LCD graphic symbols
- Simple button operation
- Automatic identification of system voltage level
- Intelligent PWM charging mode
- Adjustable charge-discharge protection
- Automatic temperature compensation
- Settable operation mode of load
- Battery reverse-discharge protection
- Battery low voltage disconnection(LVD)
- Battery reverse connection protection
- Overcurrent protection
- USB output

Technical Data

Model	NC12/24-10DU	NC12/24-20DU
Input		
PV input voltage	≤50V	
Rated charge current	10A	20A
Output		
System voltage	12V/24V Auto	
Battery over-voltage protection voltage	16.00V × 1/ × 2/ × 3/ × 4	
Rated discharge current	10A	20A
Self-consumption	10.5 mA (12V) 12.5mA (24V)	≤13mA (12V) ≤16mA(24V)
Charge loop voltage drop	≤0.3V	≤0.21V
Discharge loop voltage drop	≤0.18V	≤ 0.1V
Charging mode	PWM 4 stages (bulk, absorption,float,equalized)	
Float Charge Voltage	13.8(13V~15V) × 1/ × 2/ × 3/ × 4	
Absorption charge voltage	14.4V(13V~15V) × 1/ × 2/ × 3/ × 4	
Duration of Absorption Charge	2h	
Voltage of equalized charging *	14.6V(13V~15.5V) × 1/ × 2/ × 3/ × 4	
Duration of equalized charging	2h	
Low voltage disconnection	10.8V(10V~14V) × 1/ × 2/ × 3/ × 4	
Low voltage reconnection	12.6V(10V~14V) × 1/ × 2/ × 3/ × 4	
Load working mode	Regular control mode,Light control with switch-off point at night and switch-on point before dawn,Light control mode	
Light control voltage	5V(1V~10V) × 1/ × 2/ × 3/ × 4	
Battery type	GEL,SLD,FLD USr (defualt)	
USB口	5V1A	5V 1A
Other		
Interface	LCD,2 buttons	
Wiring	PCB terminal, ≤10mm2	
Working temperature	−20 ~ +55°C	
Storage temperature	−30 ~ +65°C	
Working humidity	10% ~ 90%, no condensation	
Dimension	160*88*42.5mm	178x101.5 x45.5mm
Weight	290g	310g
IP code	IP30	
Optional function	Remote communication，TTL, standard ModBus protocol	

ISO9001:2015 RoHS CE (EB)