

Key Features

- ◆ LCD PWM solar charge controller 12/24V 10/20/30A
- ◆ LCD Display ,with 2 USB charger
- ◆ LED Indicators for Charing,Load, fault and protection status
- ◆ Bigger terminal , more safety and easy to installation
- ◆ Selectable Battery type,4 stage Charge,adjustable charge parameter
- ◆ Temperature compensation Charge and clock function
- ◆ Load working mode , Normal,Light Control,Light and Double time control
- ◆ Protection for over charge, over discharge, overload, and short circuit,reverse polarity
- ◆ Communication with computer by RJ45 option



Technical Specifications

ITEM	MODEL	HH1024DU	HH2024DU	HH3024DU
Rated charge current		10A	20A	30A
Rated load current		10A	20A	30A
System voltage		12/24V AUTO		
Protection	Over Load	≥120%, 60s;≥150%,10s,≥180%,0.2s		
	Short circuit	Yes		
	Over voltage	16V for 12VDC,32V for 24VDC +- 0.5V		
	Low Voltage Disconnection(LVD)	10.8V for 12VDC, 21.6V for 24VDC		
	Low Voltage Reconnection(LVR)	12.6V for 12VDC,25.2V for 24VDC		
	Reverse polarity	protection for solar panel ,battery and DC load.		
	Reverse current	Yes.at night		
Static current		≤12mA for 12V,≤14mA for 24V		
loop voltage drop	Charge / Discharge	<0.3V/≤0.18V		
	absorption charging	14.4V(13V-15V)*1/*2		
Charging voltage	Float charge	13.8V(13V-15V)*1/*2		
	Equalizing charging	14.6V(13V-15V)*1/*2		
	HVD	16.0V/32.0V		
	HVR	15.5V/31.0V		
Open Circuit Voltage of solar panel		≤ 50V		
Temperature compensation		-4mV/Cell/°C		
Charging control mode		PWM 4-stage(bulk, absorption,float, equalized)		
Boost Voltage		Sealed 14.4V/28.8V,Duration 2 hours		
		GEL 14.2V/28.4V,Duration 2 hours		
		Flooded 14.6V/29.2V,Duration 2 hours		
USB Charge		2*5V 1.0A	2*5V 1.0A	2*5V 1.0A
LCD Display		LCD for Bat type,VDC,,PV output VDC,Amp and Accumulative charge AH.Load Amp and Accumulative discharge AH,Battery charge and discharge value. Controller internal Temp,fault code and S/N. load Time and light control status		
Working temperature		-10 ~ +50 °C		
Running temperature		-20 ~ +55 °C		
Storage temperature		-20 ~ +60 °C		
Humidity requirements		10% -90%, no condensation		
Installation cable area		≤6mm ²	≤10mm ²	≤16mm ²
Protection class		IP30		
Case material		ABS		
Product size(mm)		130*75*38	140*85*42.5	160*95*45
Product Weight(kg)		0.175	0.23	0.327
Carton size(mm)		540*305*180	449*320*197	360*310*217
Carton weight(kg)		12KG / 48PCS	10.8KG / 36PCS	10.3KG / 24PCS
Notes		Model HH**DU:D-LCD; U-5V/1A USB; 24-12/24VDC		