



HF series PWM solar charge controller



HF110D~HF130D (10-30A)

HF series solar charge controller is a newly designed controller. It offers convenient display of LED and LCD, optimized structure design, advanced digital technique and extremely attractive price.

The multiple load work modes enable it can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.

Features:

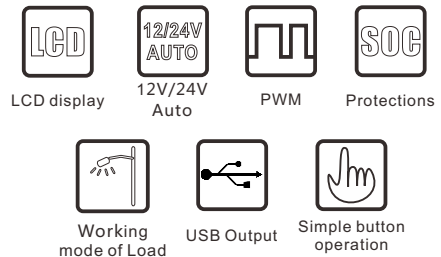
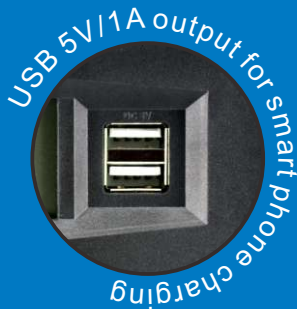
- PWM charging
- Use MOSFET as electronic switch
- LCD screen showing all parameters of the solar system
- Manual control the output of the load
- Industrial grade design
- USB output 5VDC

Electronic protections:

- Battery over charge protection
- Battery over discharge protection
- Over load protection
- Reverse current protection at night
- Reverse connection protection of battery
- Overheat protection and short circuit protection of USB output

Display:

- Vivid LCD graphic symbols
---presents working status and related parameters explicitly



Model: HF110D



Rated Voltage: 12V/24V Auto identified
Rated Current: 5A, 10A
USB Port: 5V, 1A × 2

Packing info: 50pcs/carton
Carton size: 415mm×305mm×230mm
Volume: 0.029m³

Model: HF120D



Rated Voltage: 12V/24V Auto identified
Rated Current: 20A
USB Port: 5V, 1A × 2

Packing info: 40pcs/carton
Carton size: 465mm×320mm×210mm
Volume: 0.031m³

Model: HF130D



Bigger connector!!

Rated Voltage: 12V/24V Auto identified
Rated Current: 30A
USB Port: 5V, 1A × 2

Packing info: 30pcs/carton
Carton size: 515mm×360mm×165mm
Volume: 0.031m³

Technical Data

Model		HF110D	HF120D	HF130D
Solar Input	Input voltage	≤50V		
	Rated input current	10A	20A	20A
	Charge loop voltage drop	≤0.3V		
Battery	System voltage	12V/24V Auto		
	No load loss	≤12mA(12V), ≤14mA(24V)		
	USB output	5V/1A		
	Charging mode	PWM		
	Float charge voltage	13.8V(13V~15V)×1/×2		
	Absorption charge voltage	14.4V(13V~15V)×1/×2		
	Equalized charge voltage	14.6V(13V~15.5V)×1/×2		
Temperature compensation	-4mV/Cell/°C			
Load	Rated load current	10A	20A	30A
	Discharge loop drop	≤0.18V		
	Low voltage disconnect	10.8V/21.6V		
	Low voltage reconnect	12.6V/25.2V		
	Over voltage disconnect	16.0V/32.0V		
Related	Max wire size	6mm ² ~16mm ²		
	Working temperature	-10°C~50°C		
	Working humidity	10%~90%,no condensation		
	Dimension(L×W×H)	130mm×75mm×38mm	140mm×85mm×42.5mm	160mm×95mm×45mm
	Net weight	175g	230g	327g

