

## Key Features

- ◆ PWM solar charge controller 12/24V 40/50/60A , 48VDC 40/50/60A
- ◆ 40A with 2 USB charger, Else None
- ◆ LCD display generated energy, fault code and battery,PV,Load,charge,discharge details
- ◆ 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



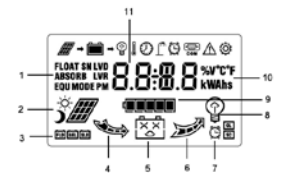
HT60D-4024U (with USB)  
HT60D-4048 (without USB)



HT60D-5024/6024  
HT60D-5048/6048

## Technical Specifications

ITEM	MODEL	HT60D-4024U	HT60D-5024	HT60D-6024	HT60D-4048	HT60D-5048	HT60D-6048
Rated charge current		40A	50A	60A	40A	50A	60A
Rated load current		40A	50A	60A	40A	50A	60A
System voltage		12/24V AUTO work			48VDC		
Protection	Over Load	≥ 120%, 60s; ≥ 150%, 10s, ≥ 180%, 0.2s					
	Short circuit	Yes					
	Over voltage	16V for 12VDC, 32V for 24VDC, 64V for 48VDC					
	Low Voltage Disconnection(LVD)	10.8V for 12VDC, 21.6V for 24VDC, 43.2V for 48VDC					
	Low Voltage Reconnection(LVR)	12.6V for 12VDC, 25.2V for 24VDC, 50.4V for 48VDC					
	Reverse polarity	protection for solar panel ,battery and DC load.					
	Reverse current	Yes.at night					
Static current		≤ 13mA			≤ 15mA		
Loop Voltage Drop	Charge / Discharge	≤ 0.17V / ≤ 0.10V	≤ 0.28V / ≤ 0.10V	≤ 0.28V / ≤ 0.10V	≤ 0.17V / ≤ 0.10V	≤ 0.28V / ≤ 0.10V	≤ 0.28V / ≤ 0.10V
Charging voltage	absorption charging	14.4V for 12VDC, 28.8V for 24VDC, 57.6V for 48VDC					
	Float charge	13.8 for 12VDC, 27.6V for 24VDC, 55.2V for 48VDC					
Open Circuit Voltage of solar panel		12VDC/24V ≤ 50V; 48V ≤ 100V					
Temperature compensation		-4mV/Cell/°C					
Charging control mode		PWM Multi-stage(bulk, absorption,float)					
Load Working Mode		regular mode, Light Control Mode , Light and Time control mode for selection					
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					
USB Charge		YES	NO	NO	NO	NO	NO
Running temperature		-20 ~ +55 °C					
Storage temperature		-30 ~ +80 °C					
Humidity requirements		10% -90%, no condensation					
Installation cable area		≤ 25mm <sup>2</sup>					
Protection class		IP30					
Case material		ABS					
Product size(mm)		196*111*54	188*125*48.5	187*125*56	196*111*54	188*125*48.5	187*125*56
Product Weight(kg)		0.407	0.562	0.701	0.407	0.564	0.703
Carton size(mm)		535*415*190					
Carton weight(kg)		14KG /24PCS	14KG /24PCS	17KG /24PCS	14KG /24PCS	14KG /24PCS	17KG /24PCS
Notes		Model HT**D:D-LCD, 24-12V/24VDC, 48-- 48VDC					



LCD Display

- 1.LVR..ABSORB..LVD..FLOAT..P(PM)
- 2.Day and night
3. Battery type: FLD..GEL..  
SLD Null means Usr
4. Charging
- 5.Error
6. Discharging
7. Time
8. Load state
9. Capacity
10. Unit
11. Data display area

