

# High Voltage Solar Charger

Convenient ● High efficiency ● Security



## Product Features

### 1. Stand Alone Application

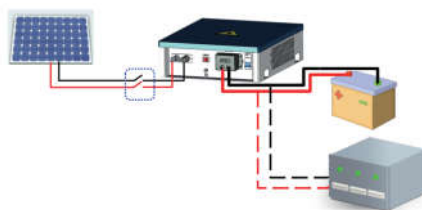


Figure 1: Diagram of high voltage solar charger independent use

- ◇ High voltage solar charger control PV power to charge for the batteries. ;
- ◇ High voltage solar charger control PV power to provide power for the DC loads..

### 2. Complementary Application With Solar Pumping Inverter

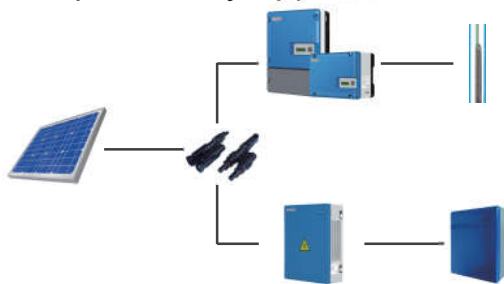


Figure 2: Complementary application with solar pumping inverter

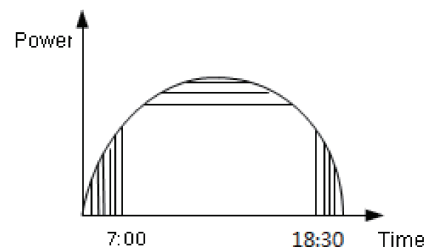


Figure 3: Energy Utilization Diagram

The high voltage solar charger is applicable to all JNTECH H series solar pumping systems, realizing the function of improving the utilization rate of PV modules energy. Because of Solar pumping system's special features, part of PV module energy is wasted during favorable light intensity like Dawn, Noon and Dusk.

When at dawn and dusk, the solar pump inverter output frequency is lower than Stop frequency, the output power of PV array is too weak to pump water;

At noon, the Inverter reaches the max. output frequency, part of energy cannot be used.

High voltage solar charger helps to store the extra energy shown as Figure 3's shadow area in battery for other usage. It significantly increases the PV module utilization.

Wide DC input voltage range , 500-800Vdc;  
The output could be connected directly to simple DC loads (such as light bulbs, etc.);  
Pure hardware design, charge efficiency could reach 90%.

Double fan heat dissipation, could prolong product lifespan.  
Perfect protection mechanism, instant Reaction, ensure stable operation of product and load.



Standard design , easy cable connecting;  
Easy operation , intuitive working status;  
Small size , easy installation;  
Complete product series, strong compatibility

Multiple electrical isolation;  
High sensitivity of output short circuit protection, make sure the machine be free from damage, and could resume automatically after short circuit be eliminated.

## Product Features

Model	JNCHF24V/30A	JNCHF48V/20A
<b>DC INPUT</b>		
Max. Charging Power	800W	1100W
Max. DC input current	850Vdc	850Vdc
Vmp Range	500-800Vdc	500-800Vdc
<b>DC OUTPUT</b>		
Rated Battery Voltage	24Vdc	48Vdc
Max. Charging Current	30A	20A
Constant Charging Voltage	27V	55V
Max. Charging Efficiency	≥90%	≥90%
<b>Mechanical Parameters</b>		
Dimensions ( L*W*H )	380mm×315mm×105mm	
Weight	6.8kg	
<b>General</b>		
Protection Level	IP20	
Fault protection	It has output overvoltage & undervoltage protection, input & output overcurrent protection, output short circuit protection, radiator over temperature protection, etc.	
Safety requirements	Insulation Resistance≥100MΩ; Insulation Strength AC1500V/1min	
Noise	<60dB	
Cooling Way	Forced cooling	
Operating Temp.	-20 ~ +50°C	
Storage Temp.	-25 ~ +70°C	
Display	LED	
Altitude	2000m(>2000m derating operate)	
Compliance	CE	