CPS SERIES



CPS heavy duty inverter charger is specifically designed for the residential and commercial use. Negligible switch time between DC and utility source ensures no interrupted power supply for PC. CPS makes it easier to get MAX. 12KW output power strongthens the whole off grid system electricity by 48V battery system.



FEATURES

BACKUP U.P.S

CPS inverter charger works with the optional source priority. With nomial AC and DC power inverter, no matter AC or DC fails, CPS will switch to the another source to ensure the loads keeping work.

LITHIUM BATT CHARGER

Lithium battery requires a different charging mode from the traditional 3-stage charging. COSUPER designed the charging software to provide users with more options of battery charging.

STANDBY MODE

It is also named as POWER SAVER mode in the inverter charger. It helps preserve battery capacity over long period of no operation.

PROTECTION

- Input/Output over current
- AC input over/low voltage
- Battery over/low voltage
- Output overload
- Short circuit
- Over temperature

REMOTE CONTROLLER

Mobilehouse Solar Off Grid Solar



APPLICATIONS

PTM-12

RV Solar

POWER RANGE





12KW

Rated Power (-10-50°C)		CPS8K	10K	CPS12K
Rated Voltage 48VDC (40.0~64.0VDC) 48VDC (40.0~64.0VDC) 48VDC (40.0~64.0VDC) Max. Charge Current 55A-house battery; 70A-house battery; 80A-house battery; Battery Type AGM/Gel/Flooded/Lithium AGM/Gel/Flooded/Lithium AC Input Voltage Range 90~140VAC / 170-275VAC Input Frequency 45-65Hz 45-65Hz AC Output AGM/Gel/Flooded/Lithium Output Frequency 45-65Hz 45-65Hz AC Output AGM/Gel/Flooded/Lithium AC Output 120V240VAC±5% 120V240VAC±5% 120V240VAC±5% 120V240VAC±5% 120V240VAC±5% <td>Rated Power (-10~50°C)</td> <td>8000 W</td> <td>10000 W</td> <td>12000 W</td>	Rated Power (-10~50°C)	8000 W	10000 W	12000 W
Max. Charge Current 55A-house battery; 70A-house battery; 80A-house battery; Battery Type AGM/Gel/Flooded/Lithium AC Input Voltage Range 90-140VAC / 170-275VAC Input Frequency 45-65Hz 45-65Hz AC Output Output Voltage 120/240VAC±596 120V/240VAC±596 Output Frequency 60/50Hz±0.3 60/50Hz±0.3 60/50Hz±0.3 Waveform Pure sine wave Pure sine wave Pure sine wave Switch Time <8ms	DC Input			
Battery Type	Rated Voltage	48VDC (40.0~64.0VDC)	48VDC (40.0~64.0VDC)	48VDC (40.0~64.0VDC)
AC Input Voltage Range 90~140VAC / 170~275VAC Input Frequency 45~65Hz 45~65Hz 45~65Hz AC Output Output Voltage 120/240VAC±5% 120V/240VAC±5% 120V/240VAC±5% Output Frequency 60/50Hz±0.3 60/50Hz±0.3 60/50Hz±0.3 Waveform Pure sine wave Pure sine wave Pure sine wave Switch Time <8ms <8ms <8ms Efficiency >88% >88% >88% Overload 105~120% 10s/>120% 01s/>1200% 01s/>15000W Protection DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Max. Charge Current	55A-house battery;	70A-house battery;	80A-house battery;
Voltage Range 90-140VAC / 170-275VAC Input Frequency 45-65Hz 45-65Hz 45-65Hz AC Output AC Output Voltage 120/240VAC±5% 120V/240VAC±5% 120V/240VAC±5% Output Frequency 60/50Hz±0.3 60/50Hz±0.3 60/50Hz±0.3 Waveform Pure sine wave Pure sine wave Pure sine wave Switch Time <8ms	Battery Type	AGM/Gel/Flooded/Lithium		
Input Frequency	AC Input			
AC Output Voltage 120/240VAC±5% 120V/240VAC±5% 120V/240VAC±5% 0/50Hz±0.3 60/50Hz±0.3 60/50	Voltage Range	90~140VAC / 170-275VAC		
Output Voltage 120/240VAC±5% 120V/240VAC±5% 120V/240VAC±5% Output Frequency 60/50Hz±0.3 60/50Hz±0.3 60/50Hz±0.3 Waveform Pure sine wave Pure sine wave Pure sine wave Switch Time <8ms	Input Frequency	45-65Hz	45-65Hz	45-65Hz
Output Voltage 120/240VAC±5% 120V/240VAC±5% 120V/240VAC±5% Output Frequency 60/50Hz±0.3 60/50Hz±0.3 60/50Hz±0.3 Waveform Pure sine wave Pure sine wave Pure sine wave Switch Time <8ms	AC Output			
Waveform Pure sine wave Pure sine wave Pure sine wave Switch Time <8ms		120/240VAC±5%	120V/240VAC±5%	120V/240VAC±5%
Switch Time <8ms <8ms <8ms Efficiency >88% >88% >88% Overload 105~120% 10s/ >120% 3s/ >150% 1s 15000W Max. Bypass 10000W 12000W 15000W Protection DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C -10~45°C -20~55°C -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Output Frequency	60/50Hz±0.3	60/50Hz±0.3	60/50Hz±0.3
Efficiency >88% >88% >88% Overload 105~120% 10s/ >120% 3s/ >150% 1s 15000W Max. Bypass 10000W 12000W 15000W Protection DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C -10~45°C -20~55°C -20~55°C -20~55°C -20~55°C -20~55°C -20~55°C -20~55°C -20~55°C -20~50°C Work/Storage Humidity 0-90% No condensation	Waveform	Pure sine wave	Pure sine wave	Pure sine wave
Overload 105~120% 10s/ >120% 3s/ >150% 1s Max. Bypass 10000W 12000W 15000W Protection DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation	Switch Time	<8ms	<8ms	<8ms
Max. Bypass 10000W 12000W 15000W Protection DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Efficiency	>88%	>88%	>88%
Protection DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Overload	105~120% 10s/>120% 3s/>150% 1s		
Self-consumption 55.0W 60.0W 60.0W Idle-consumption 23.5W 23.5W 25.0W Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation	Max. Bypass	10000W	12000W	15000W
Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Protection	DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload		
Protection DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Self-consumption	55.0W	60.0W	60.0W
DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Idle-consumption	23.5W	23.5W	25.0W
DC low-volt alarm/shutdown 42.0V (Customizable at Engineering mode) AC low-volt switch to DC 187.0V (Customizable at Engineering mode) Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Protection			
AC low-volt switch to DC Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V 62.8V 62.8V 62.8V Storage Temperature -10~45°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation		42 0V (Customizable at Engineering mode)		
Bypass to Invertering 198.0V (Customizable at Engineering mode) Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	·			
Battery over-charge shutdown 62.8V 62.8V 62.8V General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation				
General Working Temperature -10~45°C -10~45°C -10~45°C Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation		<u> </u>		62.8V
Working Temperature-10~45°C-10~45°C-10~45°CStorage Temperature-20~55°C-20~55°C-20~55°CWork/Storage Humidity0-90% No condensation0-90% No condensation0-90% No condensation		52.0 v	52.0 ¥	
Storage Temperature -20~55°C -20~55°C -20~55°C Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	General			
Work/Storage Humidity 0-90% No condensation 0-90% No condensation 0-90% No condensation	Working Temperature	-10~45°C	-10~45°C	-10~45°C
	Storage Temperature	-20~55°C	-20~55°C	-20~55°C
Dimension (W*D*H) 650*505*210 mm 650*505*210 mm 650*505*210 mm	Work/Storage Humidity	0-90% No condensation	0-90% No condensation	0-90% No condensation
	Dimension (W*D*H)	650*505*210 mm	650*505*210 mm	650*505*210 mm