

# CPS SERIES

Pure Sine Wave  
Inverter/Charger

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 strengthens 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 nominal 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.

## APPLICATIONS



RV Solar



Mobilehouse Solar



Off Grid Solar

## REMOTE CONTROLLER



PTM-12

## PROTECTION

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

## POWER RANGE

8000 W

10KW

12KW

	CPS8K	10K	CPS12K
Rated Power (-10~50°C)	8000 W	10000 W	12000 W
DC Input			
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		
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		
Switch Time	<8ms	<8ms	<8ms
Efficiency	>88%	>88%	>88%
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	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		
Dimension (W*D*H)	650*505*210 mm		