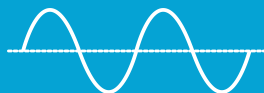


Split Phase Inverter Charger

Reliable Power Solution



The COSUPER DPT series inverter is a low frequency, pure sine wave inverter line made for handling 120VAC/240VAC split phase applications. Specifically designed for North America and the area which asks 120VAC/240VAC dual output power supply.

With the rapid-raley-switching system, this inverter can work with the battery and utility grid as the Uninterrupted Power System to provide continuous energy supply. This smart inverter charger is also able to work with Lithium Battery by RS485 communication to realize the optimized energy management.

DPT series inverter charger is heavy duty, powerfully, easy-to-use and the best of all, cost effective.

Features

- RS485 communication equipped
- Low THD ensure sensitive loads working stably
- MAX. 80A charge current for AGM/GEL/Flooded/Lithium batteries
- Heavy duty design for motored loads
- High working temperature tolerance for -10~50°C at 100% continuous output
- Battery temperature compensation for energizing battery in cold environment ; Control battery in safe charge regulation in high temperature
- Ultra-low idle consumption to save energy
- Auto GEN start/stop

Protection

- AC input/output over current
- AC input over/low voltage
- Battery over/low voltage
- Output overload
- Output short circuit
- Over temperature

Application



Off Grid System



Mobile House

Power Range

4000W

5000W

6000W

8000W

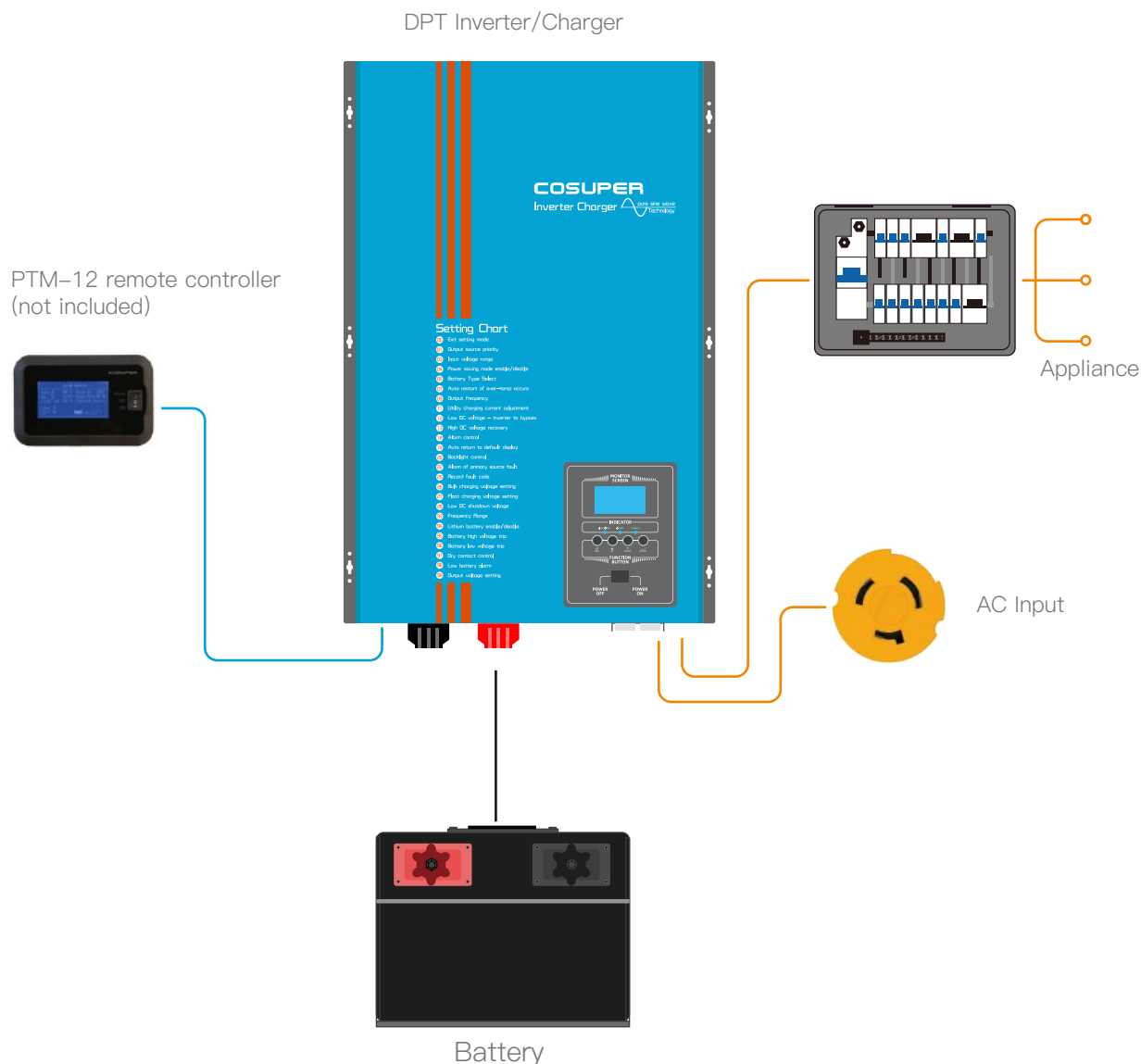
10KW

12KW

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Working Mode

>> Utility Mode, with AC input, inverter ON

With shore or Gen connected, inverter is ON.

Inverter bypass to AC loads by Shore/Gen, no more discharge battery. At the same time give charge to both start battery @3~5Adc and house battery @Max. 80Adc.

>> Off Grid Mode, no AC input, inverter ON

Without AC input, inverter is ON.

Inverter convert DC power from battery to be AC power, to provide stable AC power to appliance in vehicle. Can work at -10~50°C environment continuously without power loss.

DPT Series

INVERTER/CHARGER

COSUPER
Cool life Super power

	DPT4000	DPT5000	DPT6000
Rated Power (-10~50°C)	4000 W	5000 W	6000 W
DC Input			
Rated Voltage	24VDC (20.0~32.0VDC); x2 for 48VDC		
Max. Charge Current	60A-house battery;	75A-house battery;	80A-house battery;
Battery Type	AGM/Gel/Flooded/Lithium		
AC Input			
Voltage Range	170-275VAC	170-275VAC	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% 3s/ >150% 1s		
Max. Bypass	6000W	7200W	8000W
Protection	DC over/low volt, AC input low/over volt, AC short circuit, overtemp, overload		
Self-consumption	35.0W	50.0W	55.0W
Idle-consumption	23.5W	23.5W	25.0W
Protection			
DC low-volt alarm/shutdown	21.0V (Customizable at Engineering mode); x2 for 48VDC		
AC low-volt switch to DC	187.0V (Customizable at Engineering mode)		
Bypass to Inverting	198.0V (Customizable at Engineering mode)		
Battery over-charge shutdown	31.4V	31.4V	31.4V
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
Dimension (W*D*H)	607*308*198 mm	607*308*198 mm	607*308*198 mm

	DPT8K	DPT10K	DPT12K
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	170~275VAC	170~275VAC	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% 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 Inverting	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)	607*308*198 mm		