



CRT Series

Inverter/charger

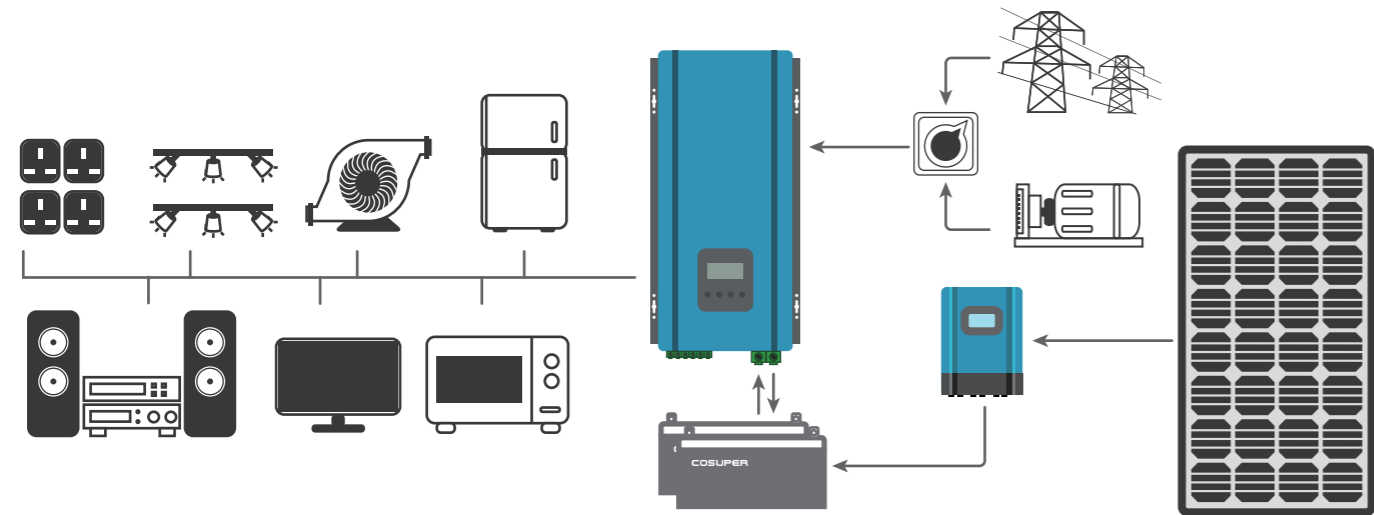
1000–6000W

Application



- Battery voltage – 12V/ 24V/ 48V
- Charger – Lithium compatibility
- PERFORM – Heavy duty design
- Topology – Low frequency

Power Range



CRT pure sine wave inverter charger is the combination of inverter, battery charger and AC auto transfer switch. With the backup UPS function, when utility AC power fails, the transfer switch and relay will be energized to switch to DC power source to maintain all the power system working continuously.

DC/AC SOURCE AUTO SWITCH

CRT inverter charger works with the optional source priority. With nomial AC and DC power input, no matter AC or DC fails, CRT 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

- AC input over voltage and short voltage
- DC input over voltage and short voltage
- AC output short circuit
- Over temperature
- Overload

Model		CRT1000	CRT2000	CRT3000	CRT4000	CRT5000	CRT6000
Output	Rated Power	1000W	2000W	3000W	4000W	5000W	6000W
	Surge Power	3000W	6000W	9000W	12000W	15000W	18000W
	Output Voltage	100 /110 /120V +/- 3%; 220 /230 /240V +/- 5%					
	Out Frequency	50 /60 Hz +/- 5%					
	Output Waveform	Pure sine wave (THD<5%)					
	Power Factor	0.8-1					
Input	DC Input	12V	24/48V				
	DC Input Range	10.0~16.0V (12V); 20.0~31.0V(24V); 42.0~62.0(48V)					
	Standby Power	<5W					
	Full-load Efficiency	86~89%					
Charge	Input AC Voltage	90~135V / 190~245V					
	Charge Voltage	Bulk: 14.0~15.1V; Equalize: 13.3~13.8V (x2 --24VDC; x4 --48VDC)					
	Over-CHG Cut	15.7V (x2 --24VDC; x4 --48VDC)					
	CHG Current	35A	55A/35A	50A/25A	70A/35A	75A/45A	75A/50A
Bypass	Transfer Time	Bypass-Invert: <8ms; Invert-Bypass: <15ms					
	MAX. bypass	10A	20A	30A	40A	40A	40A
External	Setting	Charge volt ¤t, O/P Freq, Working mode, Protection parameters					
	Communication	RS232 or TCP/IP					
	Battery Type	Gel / Lead acid / Lithium					
	Dry Contact	Relay					
Protect	DC Low-volt Cut	10.0V +/- 0.3V (x2 --24VDC; x4 --48VDC), or customized					
	DC Low-Volt Alarm	10.5V +/- 0.3V (x2 --24VDC; x4 --48VDC), or customized					
	DC Over-volt Cut	16.0V +/- 0.3V (x2 --24VDC; x4 --48VDC), or customized					
	Overload	AC output cut, manual restart after overload removed					
	Short Circuit	AC output cut, manual restart after short circuit removed					
	Over Temperature	60 +/- 5 °C					
	DC Reverse	External Fuse or breaker					
Certificate	Safety	UL458; LVD(EN60950)					
	EMC	FCC Part15 Class A; CE (EN55022:2006+A1:2007)					
General	Working Temperature	-20~50 °C					
	Working Humidity	-20~90 % RH					
	Storage Temperature	-40~70 °C					
	Cooling	Auto fans					
	Weight	14.7 Kg	17.5 Kg	19.0 Kg	30.0 Kg	32.0 Kg	34.0 Kg
	Dimension	399*222*178 mm		422*222*210 mm		574*345*197 mm	