

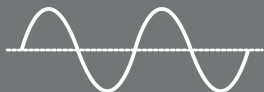
CRT Series

SOLAR INVERTER/CHARGER

COSUPER

Cool life Super power

Reliable power supply solution
For energy storage and off grid solar system



CRT series is inverter combined with AC charger and auto transfer switch. It is professional solution for off grid solar system based on Low-Frequency technology. With the pure sine wave output, no matter coffee machine, microwave, TV, satellite, printer or other equipment, CRTseries inverter charger gives perfect performance of running loads from household appliances to office devices.

This multi-function inverter, combining functions of inverter, battery charger and auto transfer switch to offer uninterruptible power. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, acceptable input voltage based on different applications. CANbus communication allows the interactive controller for special applications.

Product Features

- High power factor up to 1
- Pure sine wave output for sensitive and motor loads
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Auto switch between Utility AC and Battery with minimum 10 millisecond as UPS
- Manual switch priority power source among Solar, Utility and Battery
- Programmable AC Under-Volt(170~265VAC) shutdown to operate under weak shore power
- Gen starter gives boost signal to start backup generator for emergency
- Optimize battery by equalization function
- Support CANbus communication for special applications.

Application



Off grid solar
system



Mobile homes

Power Range

1000 W

2000 W

3000 W

4000 W

5000 W

6000 W

8000 W

10000 W

12000 W

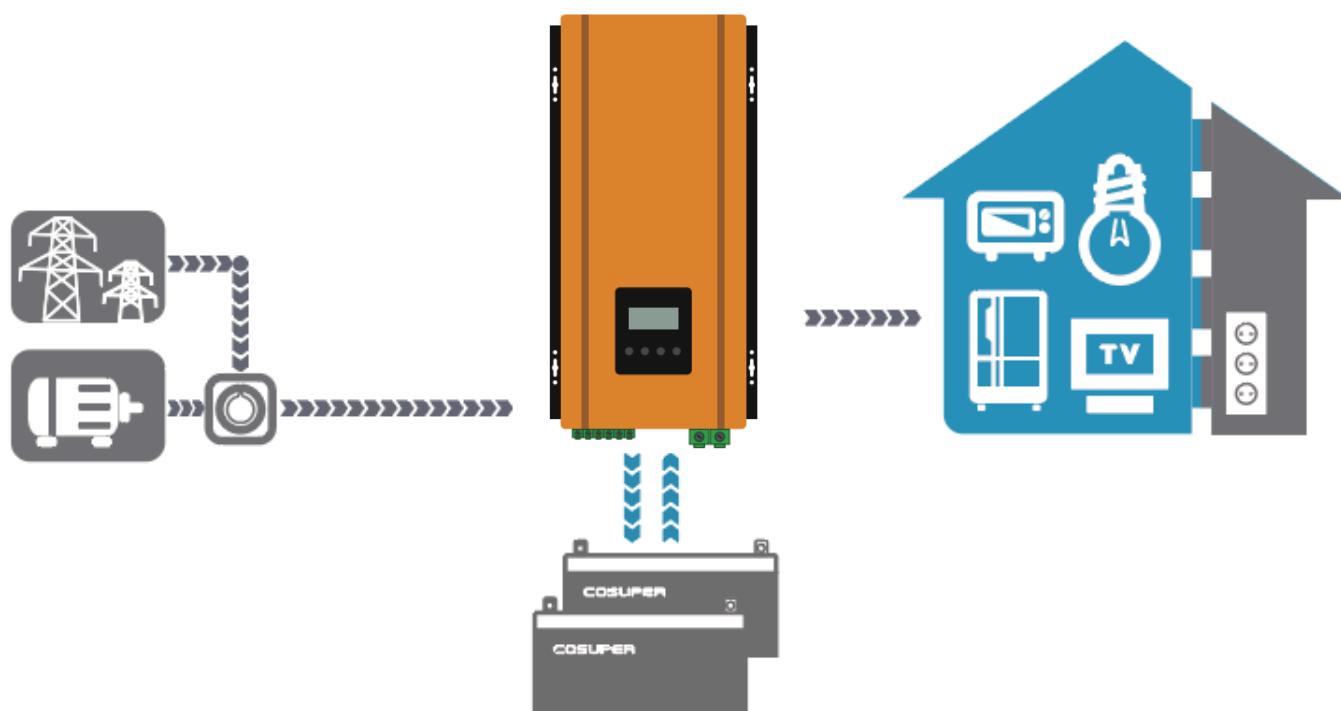
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Model	CRT1000	CRT2000	CRT3000	CRT4000	CRT5000	CRT6000
Battery System Voltage	12VDC	24VDC	12/24/48VDC	24/48VDC		
AC INPUT						
Rated AC Input Voltage	230VAC ± 5%					
Selectable Voltage Range	Narrow(196~265V); Wide(177~265V); Selectable					
Frequency	Auto sense 50 / 60Hz					
INVERTER OUTPUT						
Rated Power	1000W	2000W	3000W	4000W	5000W	6000W
Surge Power	3000W	6000W	9000W	12000W	15000W	18000W
Waveform	Pure sine wave					
AC Voltage Regulation (Batt.Mode)	200~240VAC (Adjustable, 10V/Click)					
Inverter Efficiency (Peak)	88%	89%	88%	88%	88%	89%
Transfer Time	10ms (UPS); 20ms (APL)					
BATTERY & CHARGING						
Bulk Charge Voltage	13.0~15.5V selectable (×2 for 24V model, ×4 for 48V model)					
Floating Charge Voltage	13.0~15.0V selectable (×2 for 24V model, ×4 for 48V model)					
Low-DC Voltage Alarm	10.5 V+/- 0.3V selectable (×2 for 24V model, ×4 for 48V model)					
Low-DC Voltage Protection	10.0 V+/- 0.3V selectable (×2 for 24V model, ×4 for 48V model)					
Charge Current	35A	35A	75/50/25A	70/35A	75/45A	75/50A
Charge Current Adjustment	5Amp/Click					
Overcharge Protection	16.0V selectable (×2 for 24V model, ×4 for 48V model)					
Battery Type	Fast V			Float V		
Gel U.S.A	14.0			13.7		
A.G.M 1	14.1			13.4		
A.G.M 2	14.6			13.7		
Seal Lead Acid	14.4			13.6		
Gel Euro	14.4			13.8		
Open Lead Acid	14.8			13.3		
Calcium	15.1			13.6		
De Sulphation	15.5 for 4 hours then off					
Lithium	14.7					
Other	Customized					
General parameter						
Operating / Storage Temp	0~40℃ / -10-50℃					
Communication	CANbus					
Working Humidity	10% to 90% relative humidity (Non-condensing)					
Cooling	Auto fan cooling					
Dimensions (D×W×H) (mm)	422×218×210			574×345×197		
Net Weight(kg)	14.7	17.5	19	30	32	34

Model	CRT8000		CRT10K		CRT12K	
Battery System Voltage	48/96VDC					
AC INPUT						
Rated AC Input Voltage	230VAC ± 5%					
Selectable Voltage Range	Narrow(196~265V); Wide(177~265V); Selectable					
Frequency	Auto sense 50 / 60Hz					
INVERTER OUTPUT						
Rated Power	8000W	10000W		12000W		
Surge Power	24000W	30000W		36000W		
Waveform	Pure sine wave					
AC Voltage Regulation (Batt.Mode)	200~240VAC (Adjustable, 10V/Click)					
Inverter Efficiency (Peak)	88%	88%		88%		
Transfer Time	10ms (UPS); 20ms (APL)					
BATTERY & CHARGING						
Bulk Charge Voltage	13.0~15.5V selectable (×4 for 48V model; ×8 for 96V model)					
Floating Charge Voltage	13.0~15.0V selectable (×4 for 48V model; ×8 for 96V model)					
Low-DC Voltage Alarm	10.5 V+/- 0.3V selectable (×4 for 48V model; ×8 for 96V model)					
Low-DC Voltage Protection	10.0 V+/- 0.3V selectable (×4 for 48V model; ×8 for 96V model)					
Charge Current	35A	35A	75/50/25A	70/35A	75/45A	75/50A
Charge Current Adjustment	5Amp/Click					
Overcharge Protection	16.0V selectable (×4 for 48V model; ×8 for 96V model)					
Battery Type	Fast V (×4 for 48V model; ×8 for 96V model)			Float V (×4 for 48V model; ×8 for 96V model)		
Gel U.S.A	14.0			13.7		
A.G.M 1	14.1			13.4		
A.G.M 2	14.6			13.7		
Seal Lead Acid	14.4			13.6		
Gel Euro	14.4			13.8		
Open Lead Acid	14.8			13.3		
Calcium	15.1			13.6		
De Sulphation	15.5 for 4 hours then off					
Lithium	14.7					
Other	Customized					
General parameter						
Operating / Storage Temp	0~40℃ / -10-50℃					
Communication	CANbus					
Working Humidity	10% to 90% relative humidity (Non-condensing)					
Cooling	Auto fan cooling					
Dimensions (D×W×H) (mm)	584×450×200					
Net Weight(kg)	65	70		77		



Work with Utility/Generator and Battery connected

Utility Priority

- Manually choose utility as first power priority
- Inverter runs appliances by Utility power, at the same time charge the battery bank. Charge current is adjustable from 5 amp
- Built-in AC charger gives power to battery to charge
- When Utility is not stable or failed, inverter immediately switch to battery power to provide continuous power supply

Battery Priority

- Manually choose battery power as first power priority
- Inverter runs appliances by DC power. The DC power comes both from solar chargers(not included) and battery bank
- When battery bank is running out and voltage drop to specific voltage point(set by users), inverter switch to Utility power to provide continuous power supply.