

 CENTRALION



Current Automation Inverter Charger

Family



Inverex

300W/600W/1200W



InverTron

1000W/1500W



InverTron S

2000W/3200W

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*Perfect long power backup solution for
home and office equipments*





The Best Companion for Preventing Power Interruption – Introducing Inverter Charger System

Inverter charger system can convert DC power (from battery) to AC power for supporting home and office appliances or equipments when encountering utility power failure. The system transfers between two modes “utility mode” and “inverter mode”. When encountering power failure, the system will transfer from “utility mode” to “inverter mode” for acquiring power from battery. When the utility power is back on, the system will switch back to “utility mode”, also the built-in charger system will start to charge the battery modules. This system is designed for home or office environments located in the area where utility power is in constantly shortage and long term interruption.



Centralion Provides Full Range Inverter Charger Family

In order to provide diverse choices for different requirements and applications, Centralion now provides full range inverter charger product lines including 3 grades:

<p>Standard Grade</p>  <p>Inverex series</p>	<p>Advanced Grade</p>  <p>InverTron series</p>	<p>Professional Grade</p>  <p>InverTron S series</p>
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Each grade is specially designed for fulfilling to connect specific equipments in distinct environments or locations. By having the complete product range, you can easily choose the right

model for providing you exactly satisfying performance. And you will no longer have to suffer the inconveniences of utility power interruption.

Standard

Inverex Inverter Charger 300W/600W/1200W

High Frequency
Modified Sine Wave Design



Inverex series is designed for basic appliances or equipments such as lights, fans, and TVs. It provides fairly reliable performance.

- High Frequency design
- User selectable for accepting wider input voltage
- Full automatic and silent operation
- Rack Tower design
- Off mode charging
- Compact size for convenient use and storage
- Built-in 10Amp charger for up to 100Ah battery
- Small scale and cost effective inverter for home appliances and office equipment
- Two-steps intelligent charging control to reduce the recharging time
- Available in five AC outlet configurations: NEMA, Schuko, French, India, and BS1363

Advanced

InverTron Inverter charger 1000W/1500W

Low Frequency
Modified Sine Wave Design



InverTron series inverter charger adopts superior features and is designed for connecting small power consumption appliances with excellent reliable performance.

- Modified sine wave output with low frequency transformer for motor-based loads and wider applications
- High output power factor up to 1.0 to support various types of loads
- Up to 40Amp charging current on 12Vdc models and 20Amp for 24Vdc models
- 3-Steps intelligent charging control on Constant Current mode, Constant Voltage mode & Floating mode to reduce the battery charging time
- Selectable battery capacity with appropriate charging current to extend the battery lifetime
- Fan speed control to reduce the operating noise and extend the fan lifetime
- Fast and automatic transfer from AC mode to Inverter mode to continue the AC output power for connected load.
- Overload, Battery low and high voltage protection
- High surge capacity up to three times of the self power rating
- Audible & LED indications for various unit operation and fault conditions

Professional

InverTron S Inverter Charger 2000W/3200W

Low Frequency
Pure Sine Wave Design

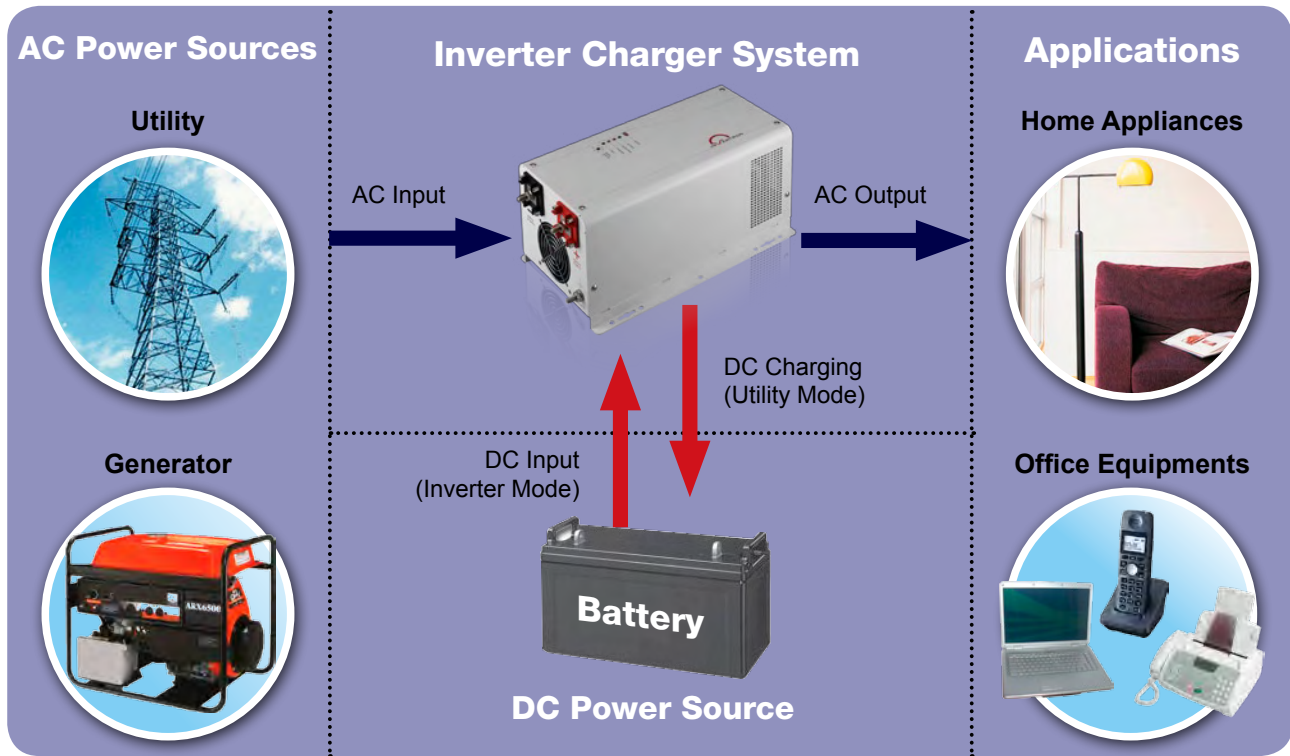


InverTron S series inverter charger is designed with the highest standards and is for connecting middle power consumption appliances with extraordinary reliable performance

- Pure sine wave output for connecting delicate inductive equipments, motor-based loads and wider connection applications
- High output power factor up to 1.0 to support various types of loads
- Up to 100Amp charge current on 12Vdc models and 70Amp for 24Vdc models
- 3-Steps intelligent charging control on Constant Current mode, Constant Voltage mode & Floating mode to reduce the battery charging time
- Selectable battery capacity with appropriate charging current to extend the battery lifetime
- Fan speed control to reduce the operating noise and extend the fan lifetime
- Fast and automatic transfer from AC mode to Inverter mode to continue the AC output power for connected load.
- Overload, Battery low and high voltage protection
- High surge capacity up to three times of the self power rating
- Audible & LED indications for various unit operation and fault conditions



How Inverter Charger System Connects to Your Home / Office Environment



Major Spec Comparison Table

	Standard	Advanced	Professional
Model	Inverex	InverTron	InverTron S
Capacity Range	300W/600W/1200W	1000W/1500W	2000W/3200W
Design	High Frequency Design	Low Frequency Design	Low Frequency Design
Output wave form	Modified Sine Wave	Modified Sine Wave	Pure Sine Wave
Battery Charger	10Amp	Up to 40Amp	Up to 100Amp
Application	For basic home office equipments	For motor-based & small-power home office equipments	For motor-based & middle-power home office equipments



Suggested Applications of Connected Devices

Home Entertainment



Type of Equipment	Power Consumption in Watts	Inverex	InverTron	InverTron S
1 VCR	35	--	1000W/1500W	2000W/3200W
2 DVD Player	20	--	1000W/1500W	2000W/3200W
3 74cm TV	130	300W/600W/1200W	1000W/1500W	2000W/3200W
4 30" LCD Screen	480	--	1000W/1500W	2000W/3200W
5 HiFi 30 Watt Speakers	180	--	--	2000W/3200W
6 Cassette/CD/Radio - Portable Radio	10-30	300W/600W/1200W	1000W/1500W	2000W/3200W
7 Portable Telephone	40 - 150	--	1000W/1500W	2000W/3200W

Home Appliances



Type of Equipment	Power Consumption in Watts	Inverex	InverTron	InverTron S
1 Fan	10 - 100	300W/600W/1200W	1000W/1500W	2000W/3200W
2 Air Conditioner	1000 - 2000	--	--	2000W/3200W
3 Filter Coffee Maker	800 - 2000	--	--	2000W/3200W
4 Fridge/Freezer	550 Inrush 1900	--	--	2000W/3200W
5 Microwave	1000 - 1400	--	1500W	2000W/3200W
6 Vacuum Cleaner	200 - 700	--	1000W/1500W	2000W/3200W
7 washing machine	<600	--	1000W/1500W	2000W/3200W
8 Frying Pan	1200 - 2000	--	--	2000W/3200W
9 Electric Oven Grill	2200	--	--	3200W
10 Blender	300	--	1000W/1500W	2000W/3200W
11 Gate Motor	440 - 660	--	1000W/1500W	2000W/3200W
12 Garage Motor	150 - 250	--	1000W/1500W	2000W/3200W
13 Tank Pump	700 - 1200	--	--	2000W/3200W

Office Equipments



Type of Equipment	Power Consumption in Watts	Inverex	InverTron	InverTron S
1 Laptop	75 - 150	--	1000W/1500W	2000W/3200W
2 Printer	350	--	1000W/1500W	2000W/3200W
3 Fax/Copier/Printer/Scanner	450 - 1000	--	1500W	2000W/3200W
4 ADSL Modem/Hubst Router	30 - 50	--	1000W/1500W	2000W/3200W

Lighting



Type of Equipment	Power Consumption in Watts	Inverex	InverTron	InverTron S
1 Lights - Energy Saver	11-22	300W/600W/1200W	1000W/1500W	2000W/3200W
2 Lights - Standard Bulbs	40 - 200	300W/600W/1200W	1000W/1500W	2000W/3200W
3 Lights - Fluorescent Tube	36 - 58	300W/600W/1200W	1000W/1500W	2000W/3200W

*The power consumption values are only for reference. The actual value depends on specification of original manufacturer.



Inverter Charger Family Specification



MODEL	Inverex			InverTron			InverTron S				
		500	1000	2000	1012(E)	1512(E)	1524(E)	2012(E)	2024(E)	3212(E)	3224(E)
CAPACITY	Watt	500VA/ 300W	1000VA/ 600W	2000VA/ 1200W	1000W	1500W	1500W	2000W	2000W	3200W	3200W
INPUT	Voltage Range	170(narrow rang)/90(wide rang)~280Vac			85-132VAC ± 4% / 184-253VAC ± 4%			184-253VAC ± 4%		85-136VAC ± 4% / 184-263VAC ± 4%	
	Frequency Range	>42±1Hz			50/60Hz ±3Hz , Auto Detection			50/60Hz ±3Hz , Auto Detection			
	Short Circuit Protection	FUSE			Circuit Breaket			Circuit Breaker			
OUTPUT	Voltage	230Vac			120VAC / 230VAC			230VAC		120VAC / 230VAC	
	Voltage Regulation (Batt. Mode)	-18%~+10%			±10% RMS			±10% RMS			
	Frequency Regulation (AC Mode)	50/60Hz +/-1Hz			50/60Hz ±3Hz			50/60Hz ± 3Hz			
	Frequency Regulation(Batt. Mode)	50/60Hz +/-0.1Hz			50/60Hz ± 0.3Hz			50/60Hz ± 0.3Hz			
	Power Factor	0.6			0~ 1.0			0 ~ 1.0			
	Nominal Efficiency	>80%			>80%			>80%			
	Waveform	Modified sine wave			Modified sine wave			Pure sine wave			
	Surge Capacity	No define			3000W	4500W	4500W	6000W	6000W	9600W	9600W
	Capable of starting motor	No define			1/2 HP			1 HP		1½ HP	
	Overload Capacity	line mode:>120% for 20s, >150% immediately shutdown Battery mode:>110% for 1min, >120% for 20s, >150% immediately shutdown			>110% for 60s ; >150% for 20s			>110% for 60s ; >150% for 20s			
TRANSFER TIME	Typical	15-20ms typical(narrow range); 40ms max(wide range)			20ms			20ms			
BATTERY	Norminal Voltage	12VDC	12VDC	24VDC	12VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC
	Low Battery Alarm	10.5V ± 0.4V	10.5V ± 0.4V	21.0V ± 0.8V	10.5VDC ± 0.3VDC	10.5VDC ± 0.3VDC	21.0VDC ± 0.6VDC	10.5VDC ± 0.3VDC	21.0VDC ± 0.6VDC	10.5VDC ± 0.3VDC	21.0VDC ± 0.6VDC
	Low Shutdown Voltage	10.0V ± 0.4V	10.0V ± 0.4V	20.0V ± 0.8V	10.0VDC ± 0.3VDC	10.0VDC ± 0.3VDC	20.0VDC ± 0.6VDC	10.0VDC ± 0.3VDC	20.0VDC ± 0.6VDC	10.0VDC ± 0.3VDC	20.0VDC ± 0.6VDC
	Rated Charging Voltage	Float:13.5V ± 0.2Vdc; Bulk:14.2V ± 0.2Vdc;		Float:27.0V +/-0.4V; Bulk:28.4V +/-0.4V;	Float: 13.5 Vdc ± 0.3Vdc;	Float: 13.5 Vdc ± 0.3Vdc;	Float: 27.0 Vdc ± 0.6Vdc;	Float: 13.5 Vdc ± 0.3Vdc;	Float: 27.0 Vdc ± 0.6Vdc;	Float: 13.5 Vdc ± 0.3Vdc;	Float: 27.0 Vdc ± 0.6Vdc;
	Rated Charging Current	10A +/-1A			40A	40A	20A	70A	35A	100A	70A
	Charging Mode	Constant Current Mode / Constant Voltage Mode / Floating Mode			Constant Current Mode / Constant Voltage Mode / Floating Mode			Constant Current Mode / Constant Voltage Mode / Floating Mode			
INDICATORS	AC Mode	Green Led Lighting			Green LED lighting			Green LED lighting			
	Inverter Mode	Yellow Led Lighting			Orange LED lighting			Orange LED lighting			
	Charging Status	When battery is not full enough in line mode, the green led will blink every 2 seconds.			Yellow LED blinking with various combination for each mode			Yellow LED blinking with various combination for each mode			
	Low Battery Voltage	Buzzing every 2 seconds			Orange LED lighting with audible alarm			Orange LED lighting with audible alarm			
	Fault	Red LED lighting with audible alarm			Red LED Lighting with audible alarm			Red LED lighting with audible alarm			
PHYSICAL	Dimension (DxWxH) mm	255 x 80 x 224			381 x 217 x 179			381 x 217 x 179		579 x 227 x 179	
	Net Weight (Kgs)	2 Kg	2.3 Kg	2.5 Kg	17.5Kg	18.5Kg		20 Kg		25Kg	
ENVIRONMENT	Operating Temperature	0- 40°C, 0-90 % relative humidity (non-condensing)			0- 40°C, 0-90 % relative humidity (non-condensing)			0- 40°C, 0-90 % relative humidity (non-condensing)			
	Storage Temperature	-15~50°C			-15 - 60°C			-15 - 60°C			
	Safety	No define			CE			CE			
	EMC	No define			FCC Class A / EN50091-2 Class A			FCC Class A/ EN62040-2 Class A			
	Noise Level	Less than 50dB			Less than 60dB			Less than 60dB			