



INVEREX S series

3-5KVA AC INVERTER



2014

Product Outlook - INVEREX S 3K



ON/OFF switch

Control Buttons



LCD



Circuit
Breaker

AC input

Grounding
Screw

AC output

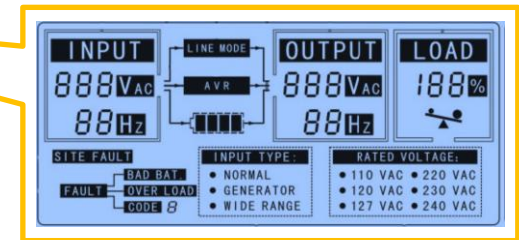
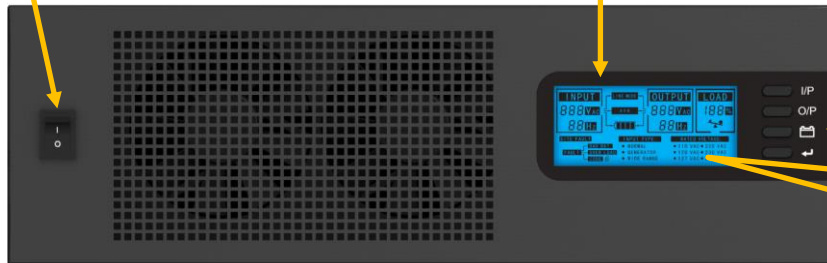
DC Input

Product Outlook - INVEREX S 5K

ON/OFF switch

LCD

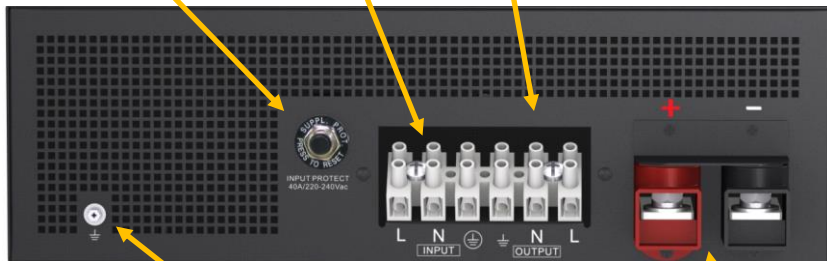
Control Buttons



Circuit Breaker

AC input

AC output



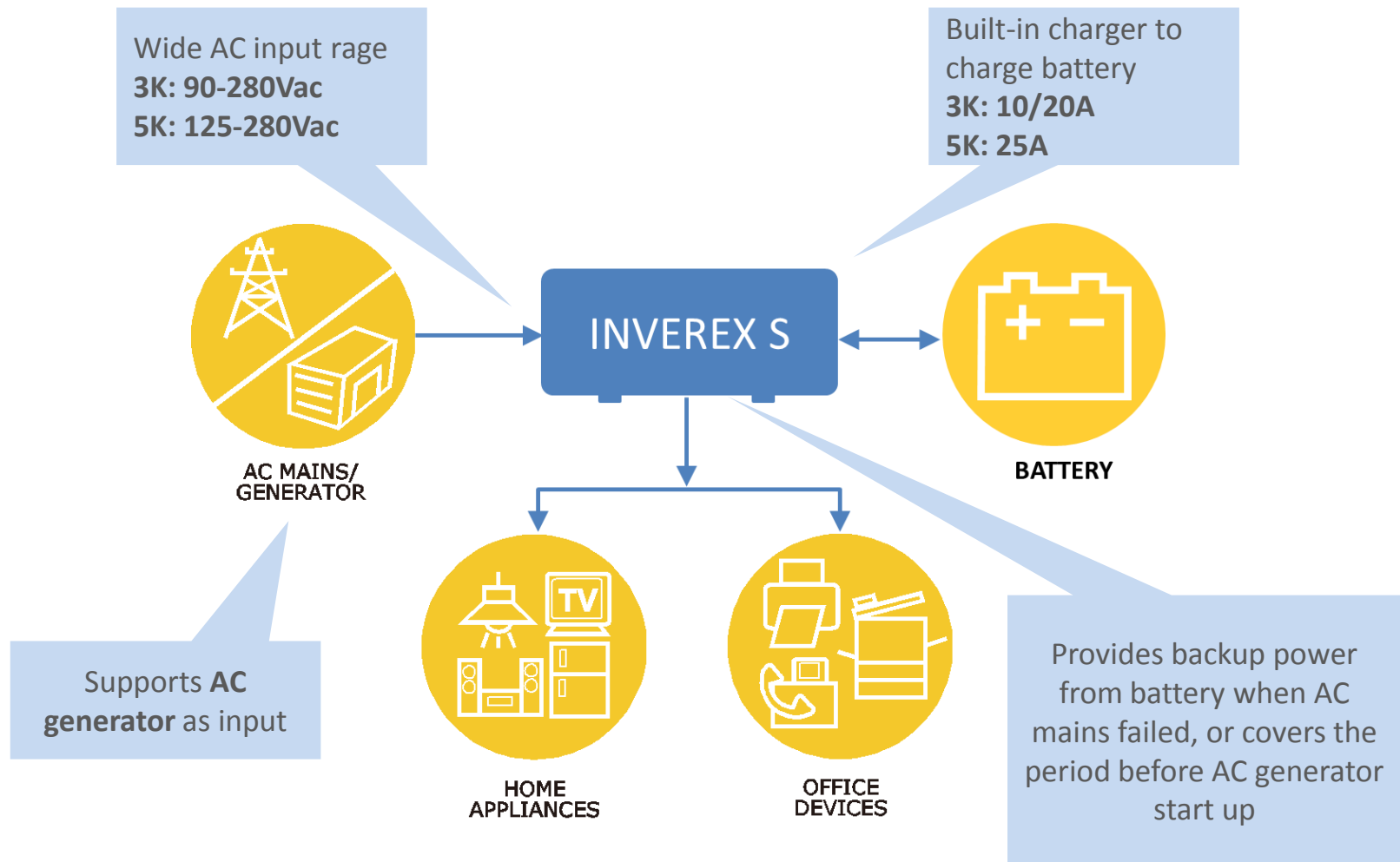
Grounding Screw

DC Input

Key Features

- High-frequency switching technology for compact size and light weight
- **Pure sine wave output** for wide range of applications and harsh environment
- High efficient DC-to-AC conversion minimizing energy loss
- Low power “Power Saving Mode”
- Input/output isolated design for optimized operation safety
- Easy-to-understand LCD which shows operational status
- Supporting Home Appliances / Office Equipment/ Lighting Equipment / Motor-Based Equipment (Such as Fan, Air-Conditioner, Washing Machines)
- Multiple protection: Input low voltage / Overload / Short circuit / Low battery alarm / Input over voltage / Over temperature

Typical Application



Why pure sine wave output?

Pure sine wave output is particularly critical for **motor-based loads** which requires sine wave current in order to generate rotational magnetic field to move the rotatable parts

Example of motor-based loads



Example of AC Loads Supported by INVEREX S

Home Application



74cm CRT Television



1000VA
2000VA

30" LCD Screen



1000VA
2000VA

DVD Player



1000VA
2000VA

Portable Radio



1000VA
2000VA

Hi-Fi 30W Stereo Speakers



1000VA
2000VA

Example of AC Loads Supported by INVEREX S

Office Application



Wireless Router / Access Point



1000VA
2000VA

Phone / Portable Phone



1000VA
2000VA

Laptop Computer



1000VA
2000VA

FAX Machine



1000VA
2000VA

Printer



1000VA
2000VA

Example of AC Loads Supported by INVEREX S

Lighting Application



Energy Saving Lamps



1000VA
2000VA

Standard Light Bulb



1000VA
2000VA

Fluorescent Tube



1000VA
2000VA

Specification – INVEREX S 3K

MODEL		INVEREX S 3K
CAPACITY	V/A/W	3000VA/2400W
SURGE CAPACITY	Watt	6000VA
	Motor load capacity	1.5HP
INPUT	Nominal Voltage	220/230/240VAC
	Voltage Range	170-280VAC (Narrow Range)
		90-280VAC (Wide Range)
OUTPUT	Voltage	230VAC
	Voltage Regulation (Bat. Mode)	10%
	Frequency	50Hz or 60Hz
	Frequency Regulation (Bat. Mode)	+/-0.1 Hz
	Output Waveform	Pure Sine-wave
BATTERY &CHARGER	Charger Current	20 Amp +/- 2Amp
	DC Voltage	24V
	Overcharge Protection	30V
TRANSFER TIME	Typical	10ms Typical
EFFICIENCY	AC to AC(Bypass)	>95%
	DC to AC(Inverter)	>90%
INDICATOR	LCD display	User Friendly LCD Display
PROTECTION	Full Protection	Discharge, overcharge, and overload protection
PHYSICAL	Dimension (DxWxH) mm	294*269*76
	Net Weight	4.9KG
ENVIRONMENT	Operating Environment	0- 45°C, 5-95 % relative humidity (non-condensing)
	Noise Level	Less than 60dB

Specification – INVEREX S 5K

MODEL		INVEREX S 5K
CAPACITY	VA/W	5000VA/4200W
	Maximum	10000VA
	Moto Load Capacity	2.5HP
INPUT	Nominal Voltage	230VAC
	Voltage Range	175~280VAC (Normal Range)
		125~280VAC (Generator/Wide range)
OUTPUT	Voltage	220/230/240VAC
	Voltage Regulation(Bat. Mode)	+/-10% rms
	Frequency	50Hz or 60Hz
	Frequency Regulation(Bat. Mode)	+/- 0.1Hz
	Overload Capacity	110~150%: 10s ; >150%: 5s
	Output Waveform	Pure Sine-wave
BATTERY & CHARGER	Charger algorithm	Three stage profile (CC/CV/Floating)
	Battery type setting	Flooded/AGM/GEL
	Charger Current	25Amp (180~280V)
	DC Voltage	48V nominal
	Overcharge Protection	60V
	Charger Power Factor	>0.95
TRANSFER TIME	Typical	10ms Typical
EFFICIENCY	AC to AC (Bypass)	>95%
	DC to AC (Inverter)	>90%
PROTECTION	Full Operation Protection	Discharge, overcharge, overload and over temperature
INDICATOR	LCD Display	User Friendly LCD Display
PHYSICAL	Dimension (DxWxH) mm	407*350*110
	Net Weight	9KG
ENVIRONMENT	Operating Temperature	0- 45°C, 5%~95 % relative humidity (non-condensing)
	Noise Level	60 dB Max