



ISO 9001: 2008 Certified Co.

On-Line UPS System

1 KVA To 100 KVA

KEY FEATURES

- IGBT based high frequency PWM Inverter Technology
- Wide input voltage range
- Pure sine wave output
- Protection from spikes, surges, RFI, EMI
- Constant voltage and frequency
- EPROM/Micro controller design
- Low noise < 50db upto 10 KVA
- Extended backup time
- Reliable Double Conversion Technology
- Float-cum-boost charger
- Soft start facility
- Clean computer grade power to critical load
- Internal Isolation Transformer (5 KVA & above Model)
- Generator compatible
- High crest factor
- Less harmonic distortion
- Static bypass switch (Optional)

Applications

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| • Local Area Network (LAN) | • Air Traffic Control Systems |
| • Telecommunication Systems | • Digital Mini Labs, Image Processing |
| • Banking, Insurance & Financial Services | • Satellite Systems, Work Stations |
| • Medical Equipment | • Industrial Automation, Process Control |
| • Embroidery Machines, Laser Cutting Machines | • General Laboratory Equipment |
| • Information Technology - Data Centres, Servers | • Studio, Printing and Media Equipment |

SATURN ON – Line UPS is the perfect solution for Mission critical users who Demand high Reliability, Availability and performance for critical electronic equipment and computer Loads. High frequency PWM Technology using IGBT provides high efficiency, low noise and faster transient response. It features double conversion true on-Line technology and incorporating IGBT In converter section. Incoming mains is rectified and converted in to suitable DC to charge the Batteries at predefined rate and also supply power to the inverter. The Inverter converts DC Back in to AC at precise voltage and frequency to feed the Sensitive load. The conversion topologies vary depending upon the Model.

Each Model ensures clean computer grade sinewave output, free from all disturbances like surges, spikes, glitches, brownouts etc.



PRODUCT		ON - LINE UPS SYSTEM
Rating		1 KVA - 10 KVA (Single Phase Input & Single Phase Output) 10 KVA - 30 KVA (Three Phase Input & Single Phase Output) 5 KVA - 100 KVA (Three Phase Input & Three Phase Output)
INPUT PARAMETERS		
AC Input Voltage		230 V ± 20 % (Single Phase) 415 V ± 20% (Three Phase)
Frequency		50Hz ± 10%
DC VOLTAGE		
1 KVA to 3 KVA		36V / 72 V / 96 V
5 KVA to 10 KVA		180 V / 240 V / 360 V
10 KVA to 40 KVA		360V
50 KVA to 100 KVA		396V
OUTPUT (INVERTER)		
Output Voltage		220 V / 230 V ± 1% (Single Phase) 400 V / 415 V ± 1 % (Three Phase)
Frequency		50 Hz ± 0.2 % Hz (Crystal controlled)
Waveform		Pure Sinewave
Efficiency		> 90%
Harmonic Distortion		< 3%
Crest Factor		> 4:1
Power Factor		0.8 lagging to unity
Overload		110 % for 10 minutes
Transient Response		Less than 2.5 V Variation for 100 % Step Load Change and Recovery time to less than 4 Milliseconds
Audible Noise		< 55db
GENERAL PARAMETERS		
Backup		DC Source: Tubular / Automotive / SMF Batteries Backup Time: 15 mins. to 6 hrs. (Depends on Battery Bank)
Display		Volt Meter for Output Volt Display / LCD Display
Indications		Mains On, UPS On, Load On Batteries, Charging, Battery Low, Over Load
Ambient Temp		0-45° C
Cooling		Forced Air
PROTECTIONS		OPTIONAL FEATURES (AT EXTRA COST)
DC over Voltage		Parallel Redundant / Hot standby modes
DC under Voltage		Static Bypass system for Automatic Transfer
Output AC over Voltage		Isolation Transformer and Servo Stabilizer In Bypass line
Output AC under Voltage		Microprocessor-based digital metering
Output Overload/Short Circuit		Serial RS 232 Interface



HF Series



IT Series

As Standards, Specifications And Designs Change From Time To Time, Please Ask For Confirmation Of The Information Given In This Catalogue

Saturn Other Product Range



Servo voltage Stabilizer



Inverter & Home UPS



Isolation Transformer



CVT & Stabilizer



R.O. Water Purifier

Manufactured by:
S. R. Electronics

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Branch / Dealer