



### FEATURES

- Microprocessor Based with VHD Logic.
- True On-Line Double Conversion type Sine Wave UPS.
- High Frequency PWM Design using IGBT/MOSFET.
- High Inrush and peak current handling capability.
- Fast Correction rate for line and load regulation.
- Over Load / Short Circuit protected.
- Excellent dynamic response on step load change.
- User friendly annunciation on

## Uninterrupted Power Supply Systems

### UPS Systems





## ON-LINE UPS SYSTEMS

Electrogard On-Line UPS Systems incorporate latest microprocessor based High Frequency PWM technology inverter providing absolutely clean sine wave output power for your critical equipment.

### SPECIFICATIONS

Rated Output Capacity	1.0 KVA to 40 KVA Single Phase Output 5.0 KVA to 100 KVA Three Phase Output
Input Voltage	Single Phase : 160 to 270 V Three Phase : 330 to 470 V, 4 Wire
Frequency	50 Hz $\pm$ 6%
Rectifier	Automatic Float cum Boost Charger Constant Voltage, Constant Current Type
Nominal DC Voltage : 240 V	1.0 KVA : 48 V, 2 - 5 KVA : 120 V, 7.5 KVA : 144 V, 10 KVA > 10 KVA : 360 V
Battery Type	Lead Acid / S.M.F. or NiCd
Backup Time	15 minutes to 5 hours or more as per requirement
Output Voltage	220/230 V $\pm$ 1% Single Phase 400/415 V $\pm$ 1% Three Phase
Frequency	50/60/400 Hz $\pm$ 0.5% as per requirement
Inverter Efficiency	88 - 90%
Waveform	Sine Wave
Distortion linear load	Max. 2% THD with no single harmonic more than 1% on
Transient Response	$\pm$ 3% under step load change from 10% to 100%
Transient Recovery	Within 5 - 10 msec.
Load Power Factor	0.65 lag to Unity
Over Load Capacity	120% for 10 minutes & 150% for 10 seconds
Crest Factor	Better than 2.5
Control Method	Double edge PWM with instantaneous control
Switching Frequency	6KHz / 12 KHz / 24 KHz
Circuit Method	Instantaneous sine wave reference technique, VHD Logic, Zero Transfer Time
Temperature	0 - 50°C Ambient
Humidity	Upto 95% RH non condensing
Audible Noise	45 - 55 dBA at a distance of 1.5 metre
Cooling	Natural / Forced Air
Dimensions (WxHxD in mm)	Upto 3.0 KVA, 1-Phase
:	350 x 585 x 575
650	3.0 to 5.0 KVA, 1-Phase : 350 x 685 x
800	7.5 to 10.0 KVA, 1-Phase : 500 x 875 x
	5.0 to 10.0 KVA, 3-Phase : 500 x 975 x

## OFF LINE UPS SYSTEMS

Electrogard Offline UPS Systems offer total solution to all power related problems like voltage fluctuations, transients, line noise, black outs and brown outs.

The heart of UPS is a microcontroller based inverter system (PWM) which draws D.C. current from a Battery Bank and gives voltage and frequency regulated AC power that is free from all sorts of power problems. Built in Battery Charger keeps the battery floating in charged condition (when the mains supply is available) and gives about 1/2 hour backup during power failure.

### SPECIFICATIONS

Model	SB-500	SB-625	SB-1K	
<b>MAINS MODE</b>				
Input	Voltage	160-265 VAC	160-265 VAC	160-265 VAC
	Frequency	50 Hz	50 Hz	50 Hz
10% Output	Voltage	220 VAC $\pm$ 10%	220 VAC $\pm$ 10%	220 VAC $\pm$ 10%
	Frequency	50 Hz	50 Hz	50 Hz
	Power	500 VA	625 VA	1000 VA
<b>INVERTER MODE</b>				
(Nom)	Voltage	220 VAC (Nom)	220 VAC (Nom)	220 VAC (Nom)
	Frequency	50 Hz $\pm$ 1%	50 Hz $\pm$ 1%	50 Hz $\pm$ 1%
Output	Power	500 VA	625 VA	1000 VA
	Waveform	Quasi-Square	Quasi-Square	Quasi-Square
	No. x Size	1 x 12V/7AH	2 x 12V/7AH	2 x 12V/7AH
<b>INTERNAL BATTERY</b>				
SMF	Type	S	M	F
	DC Voltage	12V	24V	24V
	Short Circuit	Yes	Yes	Yes
<b>PROTECTIONS</b>	Over Load	Yes	Yes	Yes

## SAGAR ELECTRICALS

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