



SH 933

10-200kVA

Online UPS



RAPSTECH™





Advanced Active Power PFC Online UPS

Features

- Power Factor Corrector
- Digital Signal Processor
- Isolation Transformer
- Static Bypass

Technology

- DSP technology
- IGBT Based Rectifier and Inverter

Interface

- SNMP compatible
- User-friendly LCD display True RMS reading
- Fault condition Status display Event logging

Power Factor Corrections

- Reduces the running cost in terms of electricity bill
- Prevent the overrating of electrical wire
- Reduce reflected harmonics back to the source
- Savings in sizing of utility transformer & generator

Topology

- Bifilar PWM switching
- IGBT Based MPWM with instantaneous Sinewave Control

Ideal Power-conditioner

- Constant Frequency source
- Premium Quality Galvanically isolated
- Power Factor Corrector

Uninterrupted Premium Quality Power using Power-Conditioning topology

The factors contributing to the pre-mature failure of electrical gadgets and eventually the system failure is not limited only to voltage fluctuations but also the poor quality of power. Hence, importance should not only be given for power availability but also for quality power availability.

SH 933 is a complete Power-conditioner & Power Factor Corrector

Optimizes the product life & process uptime by 35%-40%.

- High Grade Premium quality power, Constant voltage and Frequency,
- Galvanic isolation at the output.
- Operating ambient temperature 0-45 degrees.
- Overload handling capability of 150% for 1 minute.
- High surge handling capability.



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Regenerative Energy and Handling Capability.

All the 3PH-3PH Online UPS of RAPSTECH are capable of handling regenerative energy and SH 933 is no exception. SH 933 senses the regenerative back feed voltage (AC voltage) and clamps the same using resistive load bank.

The re-regenerative braking energy is produced in the following conditions.

Quickly decelerating a high inertia (mechanical arm, flywheel), controlling the speed of a load moving downwards (Milling, cutting, declining conveyor), sudden drop in load torque (Drilling operation, industrial saw), repetitive acceleration and retardation to stop etc.

The conventional Online UPS cannot absorb this energy and the DC bus voltage starts increasing and leads to failure of DC capacitor and switching device.

Remote UPS Monitoring Software Interface

Monitor the UPS mains input voltage, output voltage, battery voltage, load percentage etc from a remote location.

SNMP feature facilitates the user to **Carry-Out Preventive Action Remotely** without physically reaching the UPS. Pre-trip alarm pops on the monitoring screen prompting the user/system admin/maintenance engineer to initiate preventive action. Without the SNMP feature, the pre-trip alarms are often unnoticed as the UPS is located away from the users and can cause ungraceful shutdown of machines/servers/process.

SMS STATUS from the registered mobile number and get instant SMS about the mains input voltage, output voltage, battery voltage, load current etc. Also receive SMS alert for pre-trip like battery low, overload and over temperature.

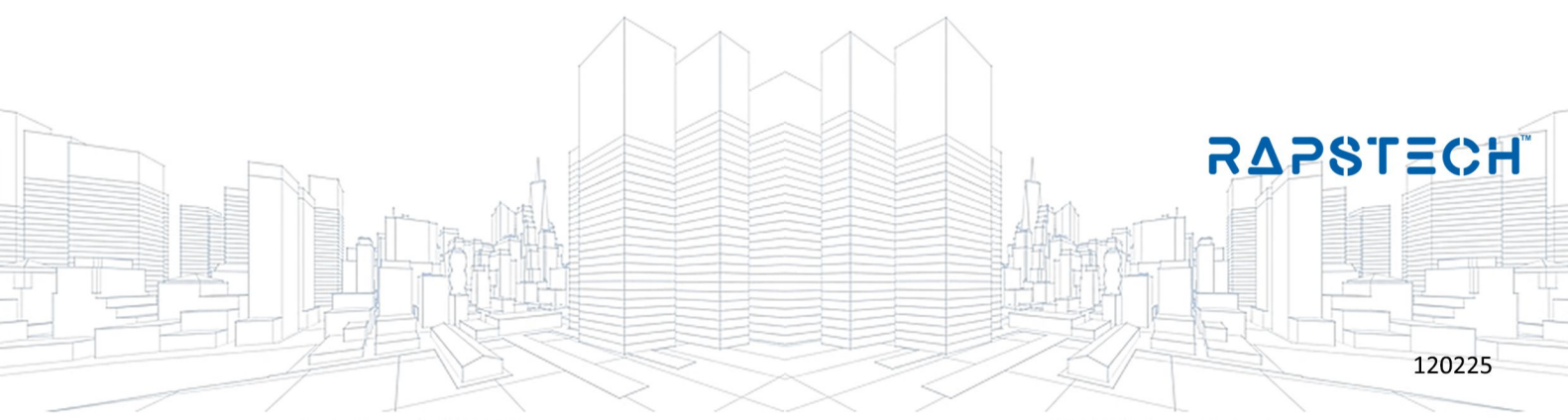
SNMP-Simple Network Monitoring Protocol



Technical Specifications: SH 933

Model	SH 933 10-15kVA	SH 933 20-40kVA	SH 933 50-200kVA									
Phase	3 Phase Input / 3 Phase Output											
INPUT												
Input Voltage	415VAC, (3Ø + N + PE)											
Input Voltage Range	330VAC - 470VAC											
Input Frequency	45-55Hz											
Input Power Factor	100% load: > 0.95											
OUTPUT												
Nominal Voltage	Three Phase 400VAC, Five Wire (3Ø + N + PE)											
Regulation	(±) 1%											
Rated Power Factor	0.8											
Frequency	50 Hz ± 0.1Hz Unsync Mode											
Waveform	True Sinewave											
Total Harmonic Distortion	Linear Load: < 2% , Non Linear Load: < 5%											
Over Load Capacity	100%: Continuous, 110%: 10 Minutes, 150%: 1 Minute											
Crest Factor	3 : 1											
Isolation	True Online with complete galvanic isolation.											
BATTERY												
DC BUS	240 Vdc	360 Vdc	360 Vdc									
Charging Current	10A	15A	20A									
Number of Batteries	20 no's	30 no's	30 no's									
SYSTEM												
Protection	Advanced Electronic Protection for device safety backed up, with MCB's/ MCCBs & fast acting fuses											
Communications	SNMP, GSM Based SMS Alert, RMP (Optional)											
Bypass	Static & Manual Bypass (Provided)											
LED Indications (Single LED with multi function)	• Mains on • UPS on • Battery Low • Overload • Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage											
Physical	10 kVA	15 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	80 kVA	100 kVA	120 kVA	150 kVA	200 kVA
Dimensions (W X D X H) (mm)	780 x 400 x 800	865 x 480 x 930			870 x 500 x 1125	1000 x 600 x 1200				600 x 1150 x 1200	760 x 1520 x 1310	760 x 1470 x 1470
Net Weight (kg)	170 kg	175 kg	195 kg	220 kg	280 kg	335 kg	370 kg	405 kg	405 kg	870 Kg		

* All specifications subject to change without notice





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📍 Plot No. 181, 11th Avenue, Dandamudi Enclave, Kompally Road, PetBasheerabad,
Rangareddy, Hyderabad - 500067

www.rapstech.co.in | ☎ 905 905 1725 | ✉ Info@rapstech.co.in