



SH933 Series

10-400kva Online UPS

More Than Power Backup – It's Power Assurance.

RAPSTECH[®]

SH933 Series

10~400kVA Online UPS



Advanced Active Power PFC Online UPS



Technology

- DSP technology
- IGBT Based Rectifier and Inverter



Topology

- Bifilar PWM Switching
- IGBT based MPWM with instantaneous Sinewave Control



Interface

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



Ideal Power-conditioner

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



Features

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



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

Uninterrupted Premium Quality Power

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.

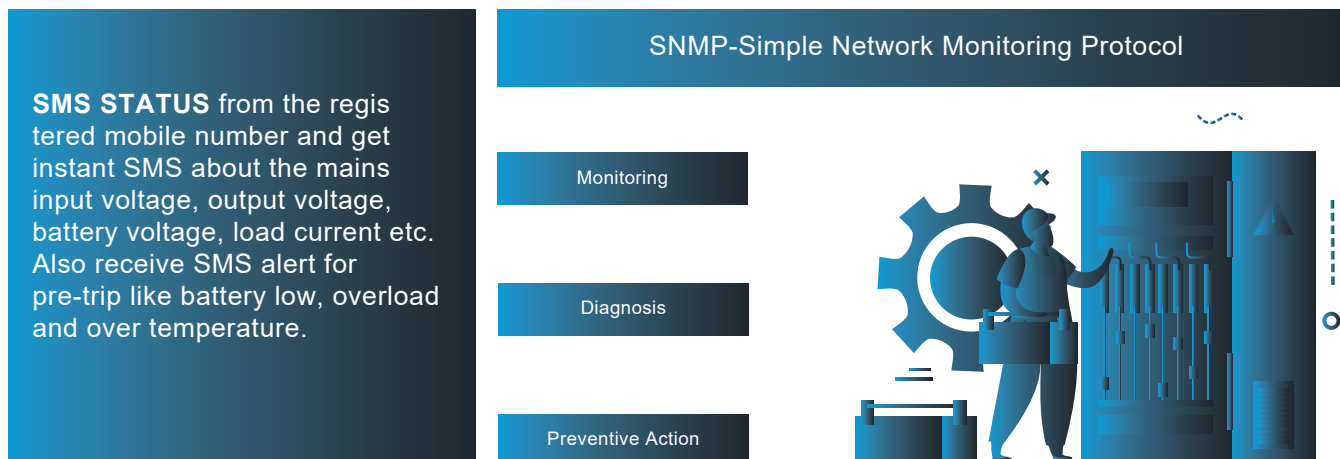
The re-generative braking energy is produced in the following conditions. Quickly decelerating a high inertia (mechanical arm, flywheel), controlling the speed of a load moving downwards (Milling, cutting, declining conveyor), sudden drop in load torque (Drilling operation, industrial saw), repetitive 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.





Model	SH933 10 KL - 15 KL	SH933 20 KL - 150 KL	SH933 200 KL - 400 KL	
	10 kVA to 15 kVA	20 kVA to 150 kVA	200 kVA to 400 kVA	
Input	Voltage	415VAC, (3Ø + N + PE)		
	Voltage Range	330VAC – 470VAC		
	Frequency	45 – 55Hz		
	Power Factor	100% load: > 0.95		
Output	Nominal Voltage	Three Phase 400VAC, Five Wire (3Ø + N + PE)		
	Regulation	(±) 1%		
	Rated Power Factor	0.8 to unity (customized)		
	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 (Max)		
	Isolation	True Online with complete galvanic isolation		
	DC BUS	240 Vdc	360 Vdc	384 Vdc
Battery	Charging Current	10A	15 - 20A	20A
	Number of Batteries	20 Nos	30 Nos	
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	Mains On, UPS On, Battery Low, Overload, Input Voltage, Output Voltage		

*Product specifications are subject to change without further notice.



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