

Technical Specifications of 20 KVA UPS

General features	Description
Configuration	20 KVA UPS System (1+1) to work in sync with automatic load sharing capability, the UPS should be able to take entire load in case of failure of single UPS. Each UPS shall have the provision of separate battery bank. The battery bank should have the provision to isolate the battery bank using battery breaker. The UPS shall have 3 phase input and single phase output in parallel configuration.
Nominal Power (kVA)	20KVA
Active Power (kW)	20kw
Topology	True Online, IGBT Based double conversion, VFI-SS-111
Active power (W)	Unity PF required
Waveform	Sinusoidal
Architecture	Rack/Tower
Input	
Input voltage	400 V (Line-Line)
Input frequency	50-60Hz +/-10% autosensing
Input voltage range	305 V-485 V (Line-Line)
THD input current	<5% at full load in normal UPS operating voltage
Input power factor	=>0.99 (with full linear load)
Auto phase sequence correction	The UPS must have auto phase sequence correction facility
Output	
Output voltage	230 V (adjustable to 220/230/240 V) \pm 1%, N+X redundancy

THD Output voltage	< 1% (at full linear load) <3% (at full nonlinear load)
Output voltage tolerance	±1%
Crest factor	3:1
Efficiency	=>95%
Efficiency ECO mode	=>98%
Communication	
communication port	1 x RS232/USB/RS485, SNMP Slot
Remote control	Yes through SNMP on Network connectivity
Power Management Software	The UPS must have Power Management Software to view and monitor UPS status, backup time & shutdown
Dry contact	With optional Relay card
Display and signals	LCD to monitor the status of the UPS in real time with control button
Environmental conditions	
Operating temperature	0-40°C
Degree of protection	IP20
Relative humidity (%)	0-95% (non condensing)
Noise level at 1m (dBA)	< 55 dB at 1 meter
Paralleling	scalable to at least 4 UPS
Certificates & Standards	
General Safety	EN / IEC 620401

Electromagnetic Compatibility	EN / IEC 620402
Performance	EN / IEC 620403
Environmental Compatibility	PeP, RoHS, REACH
Specification of Batteries	
Battery Type	12 V VRLA SMF Battery
Certifications	The battery should have ISO 9001:2008 & ISO 14001:2004 certified.
Battery Backup	90 mins battery backup on 20kVA load, 0.8pf Min VAH required 38400
For UPS	Minimum 05 Years comprehensive onsite warranty
For Battery	Warranty period of 3 Years
Stand/Rack	Suitable Battery Stands should be provided.
Mode of Procurement	Buyback