

Technical Specification of 15kVA Online UPS System

	Technical Specification				
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
	System Required Unit			2 Set	
S.No	Technical Specifications	Required Quantity	Physical Unit	Bidder's Proposed Specificaiton	Deviation(If Any)
1	15 kVA 240 V Online UPS 3 Phase in 1 Phase Out - Make 247 PWR, with Isolation Transformer	2	Nos		
2	Capacity : 15 kVA or more				
3	Input				
3.1	Voltage Range : 285-470 @100% Load. Three Phase (4 wire)				
3.2	Frequency Range (Hz) : 50Hz +/- 10%				
3.3	Power Factor : 0.95 or better				
4	Output				
4.1	Power Factor : 0.8 or better				
4.2	Voltage(V) : 220V/230V/240V +/- 1% (configurable)				
4.3	Frequency (Hz) : 50Hz +/- 0.1%				
4.4	Waveform : Pure Sine Wave				
4.5	Total Harmonic Distortion : <= 1%				
4.6	Overload : <= 125% for 10 min, 150% 1min, >150% for 300ms				
4.7	Efficiency : 94.0% or better				
4.8	Isolation Transformer shall be inbuilt within the system.				
5	Battery				
5.1	Battery Volatage shall be approx.240V DC				
5.2	Charging Current shall be 1A-10A or better				
5.3	Battery shall be Maintenance Free Gel Type whose capacity must not be less than 100 AH				
5.4	Charging Time : 4-5 Hrs or better				
5.5	Warrenty Period should be atleast 5 years(after acceptance).				
6	System Features				
6.1	The system shall be able to display Input and Output voltage, input and output frequency, load and battery %, Mains, AC mode, DC mode, Low Battery, Overload				

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6.2	There shall be the plenty of Audio and Visual alarms for Battery Low Voltage, Abnormal Power Supply, UPS Failure, Overload, etc.				
6.3	Protection for Battery Low Voltage, Overload, short Circuit and Over Temperature shall be available in the proposed system				
7	Environmental				
7.1	Temperature : Operating 0-50 degree C, Storage: -15 degree C to 60 degree C				
7.2	Noise $\leq$ 50dBA				
8	Standards				
8.1	Quality : ISO 9000, ISO 14001, ISO 27001, ISO 45001, ISO 500001, BIS, RoHS				
8.2.	Safety : IEC/EN62040-1				
8.3	EMC/Performance : IEC/EN62040; IEC/EN62040-3; Complying to CE				
9	100AH Battery	40	Nos		
10	Battery Rack-Metallic	2	Nos		
11	32A MCB, with PVC Box	6	Nos		
12	100A 25 kA MCCB, with Metal Box	2	Nos		
13	25 sq. mm flexible wire	200	Meter		
14	Wire and accessories(Battery terminals,interconnecting cables for battery)	2	L/S		
14.1	The wires and cables used in the system shall be Flame retardant Low Smoke cables.				
15	Installation, Testing and Commissioning	1	L/S		
15.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.				

