

## SPECIFICATION FOR 1 KVA ONLINE UPS

Sr.No	Electrical Characteristics / Requirement	Bidder may kindly indicate the make and model Nos of the item	Compliance-YES / NO
1	Technology / Topology	Single Phase On-line double conversion with Power Factor Correction (PFC) system, Rack Mountable 2U, UPS with 20 Minutes Back up	
2	Rating	1000VA / .9KW	
3	Nominal voltage	200/208/220/230/240V	
4	Input voltage range	176-276V without derating (up to 100-276V with derating)	
5	Output voltage/THDU	200/208/220/230/240V +/- 1%; THDU <2%	
6	Input frequency range/THDI	50/60Hz autoselection, frequency converter as standard, THDI < 5%	
7	Efficiency	Up to 90% in Online mode, 95% in Hi-Efficiency mode	
8	Crest factor/short circuit current	3:1/90A	
9	Overload capacity	102-110% : 120s, 110-125%: 60s, 125-150%: 10s, >150%: 500ms	
10			
11	<b>Rail Kit</b>	Included with all Rack Model UPS	
	<b>Connections</b>		
12	Input	Terminal block (up to 10 mm <sup>2</sup> )	
13	Outputs	Terminal block + 2 controlled groups of 4 IEC C13 (10A)	
14	Outputs with HotSwap Maintenance Bypass	Terminal block + 3 IEC C13 (10A) + 2 IEC C19 (16A)	
15	<b>Batteries Rack Mountable feature</b>	Provides a secure enclosure for Batteries ; Space saving (no additional External Space needed)	
16	Battery management	Temperature compensated charging method (user selectable), automatic battery test, deep discharge protection, automatic recognition of external battery units.	
17	<b>USER INTERFACE</b>		
18	Display	Graphical LCD with LED backlight,	
19	Standard Communication Ports	RS-232 and USB HID Port as standard	
20	Relay Output	Common Alarm standard	
21	Optional Mini Slot cards;	Web/SNMP, Relay, ModBus	
22	<b>ENVIRONMENTAL &amp; SAFETY</b>		
23	Ambient storage temperature	0°C to +35°C with batteries and -15°C to +60°C without batteries	
24	Ambient service temperature	Power electronics part: 0 to +40°C	
25	Battery part:	5°C to +25°C without reducing battery life	
26	Relative humidity	0 to 95%, no condensation allowed	
27	Audible Noise	<50dB	

28	Safety	IEC/EN 62040-1	
29	EMC, performance	IEC/EN 62040 -2	
30	24 X 7 X 365 Service Call Centre	At time of bidding vendor should be operating proper call centre for logging of service calls & allotting of calls to respective regional service centres. A Toll Free Number for OEM's Service Call Centre to be provided with tender.	
31	ISO Certification	UPS Manufacturer should be ISO 9001 & ISO 14001 Certified organization.	
32	UPS OEM experience	UPS Vendor should be in existence in Indian UPS Market for > 10 Years (certificate of incorporation required).	
33	Preferred Makes	APC , Eaton , Emarson , Mitsubishi, Delta,BPE	
34	MAF	Manufactures Authorization required from OEM	