

COMPLIANCE STATEMENT TO TECHNICAL SPECIFICATIONS OF THE (1+1) PARALLEL REDUNDANT ONLINE UPS SYSTEM

TENDERERS ARE REQUIRED TO FILL-UP THE OFFERED SPECIFICATIONS' COLUMN

(Tenderer not filling-up this format will be rejected)

SPECIFICATIONS FOR 2X10 KVA ONLINE UPS SYSTEM SYSTEM WITH ONE HOUR BACK-UP ON FULL LOAD ON EACH UPS		
PARAMETER	REQUIRED SPECIFICATION	OFFERED SPECIFICATION
Topology	True Online Double Conversion Power Recreation	
Rectifier Design	Fully Controlled	
Charger Design	Low Ripple CVCC Battery Charging	
Inverter Design	Advanced Sine-weighted High Frequency PWM using IGBT with Instantaneous Sine-wave Control	
Duty	Continuous Operation on Full Rated Power	
INPUT		
Voltage Range	340 to 460 V AC, Three Phase	
Frequency Range	47 to 53 Hz	
Input Phase Sequence Reversal	UPS should keep working normally without draining the batteries	
Single Phase Operation	It should also be possible to operate the UPS using Single Phase Input Supply, whenever required.	
Back-Feed Protection	Required	
OUTPUT		
Power Rating	10 KVA / 9 KW Continuous for Each UPS, The System shall be installed in 2X10KVA /9 KW configuration to achieve 20 KVA / 18 KW Output Capacity without Redundancy and 10 KVA/ 9 KW Output Capacity with (N+1) Redundancy	
Number of UPS, which can be connected in parallel to form a unified system with one output	Minimum Two (Each ups should be capable of working in standalone or parallel mode without any modifications)	
Voltage	230 V AC, Single Phase	

PARAMETER	REQUIRED SPECIFICATION		OFFERED SPECIFICATION		
Voltage Regulation	± 1%				
Frequency	50 Hz ± 3Hz in Synchronized Mode 50 Hz±0.05Hz in Battery Mode / Unsynchronized Mode				
Waveform	Sine Wave				
Harmonic Distortion	Less than 2% on linear load Less than 5% on Non-linear Load				
Load Power Factor	Unity to 0.7 lag within specified power ratings				
Overload Rating	125% for 1 minute 150% for 30 seconds The UPS should not trip in case of Start/ Stop of the Load (s) within the Overload Ratings of the UPS				
BATTERY					
Type	Sealed Lead Acid Maintenance Free				
Back-up Time	One Hour on full load of 10 KVA / 9 KW Load on Each UPS. Battery Required : 18000 VAh Minimum with each UPS				
Battery Cabinet	Powder-coated to be provided for safety of the User				
Ingress Protection for Battery Cabinet	IP10 or Better				
Battery Protection	MCCB / MCB of Suitable DC rating should be installed				
PROTECTIONS					
Input Over Current	Input Under/ Over Voltage	Output Under/ Over Voltage			
Over Temperature	Battery Under/ Over Voltage	Output Overload & Short Circuit			
ENVIRONMENTAL					
Operating Temperature	0 to 40 deg C (45 deg C Peak)				
Relative Humidity	Upto 95% Non-condensing				
Audible Noise	< 55 dB at 1 metre				
Ingress Protection	IP20				
Cooling	Forced Air Cooling				

