

**COMPLIANCE STATEMENT TO TECHNICAL SPECIFICATIONS OF THE UPS FOR ANALYTICAL INSTRUMENTATION
(FOR HIGHER END INSTRUMENTATION, COMPRESSOR AND MOTOR LOAD APPLICATION FOR INSTRUMENTS)**

**ALL VENDORS ARE REQUIRED TO FILL-UP THE 'OFFERED SPECIFICATIONS' COLUMN
(Vendor not filling-up this format will be rejected)**

SPECIFICATIONS FOR 80 KVA ONLINE U.P.S. SYSTEM			
PARAMETER	REQUIRED SPECIFICATION		OFFERED SPECIFICATION
Topology	True Online Double Conversion Power Recreation		
Isolation	Regenerated Output Neutral for Galvanic Isolation between Mains and Load		
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.		
INPUT			
Voltage Range	340 to 470 V, Three Phase		
Frequency Range	47 to 53 Hz		
Input Phase	UPS should keep working normally without draining the batteries and should Charge the Batteries also		
Sequence Reversal			
OUTPUT			
Power Rating	80 KVA / 80 KW, 400 V, 3 Phase		
Output Current	Continuous Output Current = 115 A Per Phase		
Voltage Regulation	± 1%		
Frequency	50 Hz ± 0.05% Crystal Controlled		
Waveform	Sine Wave		
Harmonic Distortion	Less than 2% on linear load		
Power Factor	Unity to 0.7 lag within specified power ratings		
Load Crest Factor	3:1 without derating		
Overload Rating	125% for 10 minutes 150% for 1 minute 300% for 10 milliseconds The UPS should not trip in case of Start-up of Any Load at the Output within the above specifications		Specify Output Current @ 400 V and 125% load: Specify Output Current @ 400 V and 150% load : Specify Output Current @ 400 V and 300% load :
PROTECTIONS			
Input Over Current	Input Under/ Over Voltage	Output Under/ Over Voltage	
Over Temperature	Battery Under/ Over Voltage	Output Overload & Short Circuit	

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PARAMETER	REQUIRED SPECIFICATION	OFFERED SPECIFICATION
BATTERY		
Type	Sealed Lead Acid Maintenance Free	
Back-up Time	60 Minutes or 1 hour on 80 KVA / 70 KW Load. Total Battery Bank Should be divided into two separate banks to ensure about 30 minutes back-up when one bank is under maintenance / break-down	Specify No. Of Batteries : Specify Voltage of Each Battery : Ampere-Hour Rating of Each Battery :
Battery Bank Monitoring	Both the Battery banks should have the provision to monitor battery charging & discharging currents	
Battery Installation	For Safety of the user, either the batteries should be built-in OR external Powder-coated battery cabinet should be supplied. There shall be a suitable Battery MCB / MCCB / Protection in addition to protection inside the UPS	
ENVIRONMENTAL		
Operating Temperature	0 to 45 deg C (50 deg C Peak)	
Relative Humidity	Upto 95% Non-condensing	
Audible Noise	< 55 dB at 1 metre	
Ingress Protection	IP 20 for UPS IP 10 for Battery Cabinet	
Cooling	Forced Air Cooling	
EXTERNAL PANEL FOR UPS INPUT AND LOAD DISTRIBUTION		
Input	Suitable MCB / MCCB of Reputed Brand	Specify the Brand and rating :
Change-Over Switch / Mechanism	Automatic as well as Manual Operation to be provided for continuous Rating of 125 A, 3 Phase, Minimum	
Output	Minimum 6 No. Through Three Pole MCB – C-Curve 2 No. for 3 Pole, 16A each., 2 No. for 3 Pole, 32 A Each and 2 No. for 3 Pole, 63 A Each	Specify the Brand :
Indications and Metering	Suitable Long-term reliability type LED Indications for Incoming Supply, Output Supplies to be Provided Meter for Incoming Supply should be provided	
Type	Wall Mounting Type with Base Stand	
ONSITE WARRANTY		
For UPS	5 years Minimum	
For Battery	5 years Minimum	

The required Earthing work should also be done by the vendor supplying the UPS. The price for making the Earthing pit and installation of the Earthing

material including required cables and other accessories should also be included in the quotation. The vendor may visit the site prior to submission of quotation in order to be able to make an accurate estimate of the same.

