

TECHNICAL SPECIFICATIONS FOR 20 KVA ONLINE UPS	
Capacity	20 KVA
Technology	High frequency switching double conversion
Inverter Technology	PWM technology with IGBTs with built In galvanic isolation
Noise Level	Less than 50 dB
Operating Temperature	0-45 degree centigrade
Humidity	0 - 95% non-condensing
Total DC bus voltage	360 VDC
Battery recharge time (After Complete discharge) to 100% charge	8 Hours
Crest Factor	Minimum 3:1 at full load
Out put Wave Form	Pure Sine wave
Cold Start feature	Required
INPUT	
Input	Three phase 4 wire
Input Voltage Range	415VAC+ Neutral +earth
Input Frequency Range	46-54Hz
Line low/Hight Cutoff	330 VAC to 478 VAC
OUTPUT	
Output Voltage	220/230 VAC programmable 1 phase+N
Output Frequency	50hz +/- 0.5%(Free running)
Harmonic Distortion	≤2% (linear load) ≤5% (non-linear load)
EFFICIENCY	
AC to AC	93%
DC to AC	94%
MANUAL BYPASS	REQUIRED
LOAD POWERFACTOR	0.8 lag
OVERLOAD CAPACITY	125 % for 10 mts
UPS SHUT DOWN	
	UPS shut down with alarm and Indication in case of Out put over voltage Output undervoltage Battery Low Inverter over load over temperature Output short
ISOLATION	
Isolation of power	Both input & Output have MCB's. Also battery connection have MCB/MCCB/ switch
Isolation Transformer	At input
Galvanic Isolation	Required
PROTECTION	
Short Circuit Protection	MCB / MCCB Trips and UPS shut down with out blowing any fuses

Input over and under voltage	MCB with alarm. UPS safe in the case of high Voltage/High Current/ high spike/ high surges at input to the UPS
Output over & under voltage	MCB with alarm. The load connected to the UPS should be protected under any circumstance
INDICATORS	
	Mains on
	Inverter On
	Mains high
	mains low
	Inverter over voltage
	Inverter under voltage
	Battery Low
	Battery Over charge
	Inverter overload/Current
	Over temperature
LCD DISPLAY	
	Input/Output Voltage
	Out put frequency
	Load current
	Battery voltage
DEGREE OF PROTECTION	IP 20
COMMUNICATION INTERFACE	RS 232 port
AUDIBLE ALARM	
	Battery low
	Mains failure
	Out put over current
	Overload
WARRANTY	3 YEAR WARRANTY FOR UPS
QUALITY STANDARDS	ISO 9001:2015,ISO 14001:2015,ISO 45001:2018

DEPARTMENT OF TECHNICAL EDUCATION
GOVERNMENT ENGINEERING COLLEGE, THRISSUR

D1/3287/22/GECTCR

21.04.2022

QUOTATION No.D1/03/22-23

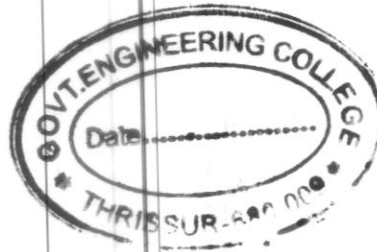
SHORT QUOTATION NOTICE

Quotations sealed with sealing wax, are invited for the Purchase of 20 KVA Online UPS (Buy Back Scheme) for CCF.

Sl.No.	Item	Qty.
1	20 KVA Online UPS, 3 Phase, 360 VDC (Detail Specification Attached)	1 No
2	<u>Buy Back</u> TECHSER 20 KVA Online UPS	1 No.

Sealed envelopes containing the quotations should bear the superscription Quotation No.D1/03/2022-23 due on 05/05/2022 and should be addressed to the Principal, Govt. Engineering College, Thrissur, Kerala. The last date for the receipt of quotation is 05/05/2022 at 2 P M. Late Quotations will not be accepted. The Quotations will be opened at Govt. Engineering College, Thrissur on 05/05/2022 at 3. P.M. in the presence of such tenderer or their authorized representatives who may be present at that time. The maximum period required for delivery of the articles should be mentioned. Details of requirements and conditions governing their supply can be obtained from the undersigned till 05/05/2022 2 PM.

1. The offer should be valid for a minimum period of 3 months from the date of opening the quotation.
2. No advance payment will be given
3. FOR Govt. Engineering College, Thrissur.
4. Bills submitted only GST Registration



Principal
Govt. Engineering College
2022 at
Principal
Govt. Engg. Colleg
Thrissur