

TECHNICAL SPECIFICATION OF 10KVA ONLINE UPS		
Online UPS 3- Ø Input / 1- Ø Output		
PARAMETERS	VALUES	
TECHNOLOGY	Double conversion Online with the latest MPWM technology using IGBT.	
RATING	10 KVA	
DC BUS	240 V	
INPUT		
NOMINAL INPUT	415 V AC 3-Ø + N	
INPUT RANGE	360 to 460 V	
INPUT FREQUENCY	50 Hz ± 8%	
INPUT POWER FACTOR	>0.9 on Full Load with THDi <5%	
RECTIFIER		
VOLTAGE REGULATION	(±) 1%	
RIPPLE VOLTAGE	<2% without Battery	
CONVERTER PROTECTION	Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses	
INVERTER		
INVERTER TYPE	IGBT based MPWM with instantaneous Sinewave Control	
POWER FACTOR	0.8 Lag	
NOMINAL VOLTAGE	230 V 1-Ø	
REGULATION	(±) 1%	
FREQUENCY	50 Hz ± 0.1 Hz	
WAVEFORM	TRUE SINEWAVE	
TOTAL HARMONIC DISTORTION	LINEAR	< 5%
	NON-LINEAR	< 8%
TRANSIENT RESPONSE	Remains within ±5% & recover to normal within 20 msec	
OVERLOAD CAPACITY	100%	Continuous
	125%	10 Minutes
	150%	60 seconds
MODE OF OPERATION	Designed for continuous operation	
ISOLATION	True Online with inbuilt isolation transformer.	
INVERTER PROTECTION	Advanced Electronic Protection for device safety, backed up with MCB's/ MCCBs & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip with reset.	
BYPASS		
MANUAL BYPASS	SHOULD BE PROVIDED	
STATIC BYPASS	SHOULD BE PROVIDED	
EFFICIENCY	LOAD	10 KVA (8KW)
OVERALL EFFICIENCY	100% LOAD	> 93%
CHARGER		
BATTERY TYPE	SEALED MAINTENANCE FREE LEAD ACID TYPE	

RECOMMENDED NO. OF BATTERIES (Exide, Amaron make) to be supplied with battery rack and interconnecting cables	20 Nos, 12V 200Ah
BANK VOLTAGE	240 V
BANK LOW VOLTAGE ADVANCE ALARM TRIGGER - TO BE AVAILABLE	
BATTERY BANK LOW CUT OFF - TO BE AVAILABLE	
ALARMS, INDICATIONS AND DISPLAY	
ALARMS	Input / Low / Fail
	Output Overload
	Over Temperature
	Battery Low
LED INDICATIONS	Mains ON
	Charger ON
	Inverter On
	Battery Low
	Overload
	Inverter Trip
USER FRIENDLY LCD DISPLAY	Input Voltage
	Output Voltage
	Load Percentage
	Output Frequency
	Battery Voltage

<u>UPS PROTECTION FEATURES</u>

INPUT MCCB / MCB	Protects the input from very large current caused by short circuit or a damaged internal component and avoids further damage to the equipment.
INPUT UNDER VOLTAGE / OVER VOLTAGE	Prevents damage of components in the input sensing & the converter devices
OUTPUT UNDER VOLTAGE	Protects the load and its components from premature failure.
RECTIFIER OVER VOLTAGE	Prevents damage to the inverter & the charger components
OVER TEMPERATURE PROTECTION	Protects the Inverter & Converter magnetics and switching devices against premature failure
BATTERY LOW PROTECTION	
OVERLOAD PROTECTION	Protects the Inverter components against premature failure / Protects against false tripping & complete shutdown in case of surge power drawn by the load (non linear loads)
SHORT CIRCUIT PROTECTION	

<u>BACK UP TIME / WARRANTY</u>	
Backup time of UPS	4 hours on full load
Warranty on UPS	3 years
Warranty on Batteries	2 years