

Specification of UPS 1200 VA/1 KVA

S.N	Parameters	Technical Specification	Remarks
1	Nominal Input Voltage	220V	
2	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)	
3	Power Factor	Minimum 0.8	
4	Nominal Output Voltage	220V	
5	Topology	Line Interactive	
6	Waveform Type	Sine wave	
7	Battery Type	Maintenance-free sealed Lead-Acid battery	

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8	Typical recharge time	Maximum 8 hour(s)	
9	Features	Automatically regulating and smoothing the power supply from voltage fluctuations to better prevent under-voltage brownouts and over-voltage power surges.	
		Protection for short circuit and overload.	
		Both audible and LED indication for UPS status and alarm.	
10	OS Support	Windows, IOS, Linux	
11	Manufacture Date	Less than 6 months on the day of delivery	
12	Standard	ISO or Equivalent	
13	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of UPS 1 KVA

S.N	Parameters	Technical Specification	Remarks
1	Nominal Input Voltage	220V	
2	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)	
3	Power Factor	Minimum 0.8	
4	Nominal Output Voltage	220V	
5	Topology	Line Interactive	
6	Waveform Type	Sine wave	
7	Battery Type	Maintenance-free sealed Lead-Acid battery	
8	Typical recharge time	Maximum 8 hour(s)	
9	Features	Automatically regulating and smoothing the power supply from voltage fluctuations to better prevent under-voltage brownouts and over-voltage power surges.	
		Protection for short circuit and overload.	
		Both audible and LED indication for UPS status and alarm.	
10	OS Support	Windows, IOS, Linux	
11	Manufacture Date	Less than 6 months on the day of delivery	
12	Standard	ISO or Equivalent	
13	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of UPS 1.5 KVA

S.N	Parameters	Technical Specification	Remarks
1	Nominal Input Voltage	220V	
2	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)	
3	Power Factor	Minimum 0.8	
4	Nominal Output Voltage	220V	
5	Output Voltage Distortion	Less than 5% at full load	
6	Topology	Line Interactive	

7	Waveform Type	Pure Sine wave	
8	Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte Leakproof	
9	Typical recharge time	Maximum 4 hour(s)	
10	Features	Automatically regulating and smoothing the power supply from voltage fluctuations to better prevent under-voltage brownouts and over-voltage power surges.	
		Protection for short circuit and overload.	
		Both audible and LED indication for UPS status and alarm.	
11	OS Support	Windows, IOS, Linux	
12	Manufacture Date	Less than 6 months on the day of delivery	
13	Standard	ISO or Equivalent	
14	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of UPS 10 KVA -Single Phase

S.N	Parameters	Technical Specification	Remarks
1	Type	1 Phase IN – 1 Phase OUT	
2	Technology	DSP Based Double Conversion	
3	By-Pass	Available	
4	Battery Voltage	192V DC	
5	Battery Charging Current	1 Amp to 10 Amp	
6	Battery Recommendation	100 Amp to 200 Amp	
7	Indication	LCD Panel	
8	Alarm	Low Battery, Mains Fail, Over Load, Short Circuit	
9	Mains Mode		
10	No. of Phases	1 Phase - 3 Wire	
11	Voltage Range	170V – 280VAC	
12	IP Frequency Range	47Hz – 53Hz	
13	Output		
14	Power Factor	Minimum 0.9	
15	Phase	1 Phase – 2 wire (P N)	
16	Output Waveform	Pure Sine Wave	
17	Voltage	230V +/-1%	
18	Frequency	50Hz +/- 1%	
19	Load Crest Factor	>3:1	
20	Output Voltage THD	<=3% on linear load	
21	Loading Capacity	110% for 2 Minutes	
22	Protections		
23	Over Load	Short Circuit	
24	Battery Over Charge	Mains MCB Trip	
25	Surge Protection / Spike Protection	Yes	

26	Warranty	Minimum 2 years / Provided by OEM which ever is greater	
27	Standard	ISO or Equivalent	

Specification of UPS Online 20 KVA/ 240 Volt

S.N	Parameter	Technical Specification	Remarks
1	Features	True Online Double Conversion with DSP Controlled Sine Wave	
		Generator Compatibility	
		Support Economic Operation (ECO) Mode	
		Optional Parallel upto 4 units	
		User friendly LCD display	
		Static Bypass and Cold Start	
		Isolation Transformer Compatible	
Input			
2	Nominal Input Voltage	380V/400V/415V AC (3Ph+N+PE)	
3	Operating Voltage Range	277V~480V AC Load Dependent	
4	Frequency Range	50Hz/60Hz ± 10% (Auto Sensing)	
5	Power Factor	0.99 or better	
Output			
6	Voltage	220/230/240V AC L+N+PE (Configurable)	
7	Voltage Regulation	±1%	
8	Crest Ratio	3:01	
9	Frequency (Synchronized Range)	50Hz/60Hz Auto Sensing	
10	Frequency (Battery Mode)	50/60 ± 0.01Hz	
11	Harmonic Distortion	Maximum 2%@Linear Load, 5%@Non-Linear Load	
12	Output Waveform	Pure Sine Wave	
13	Efficiency	Up to 94% Dual Conversion Mode, 99% ECO Mode	
14	Parallel	upto 4	
Battery			
16	Number of Batteries (To Be Included)	20 pcs	
17	Battery Type	12V (Sealed Lead Acid Maintenance Free, Minimum 65aH)	
18	Typical Recharge Time	6~8 Hours to 90% of full Capacity	
19	Charging Current	10A	
20	Battery Voltage	192V DC / 216V & 240V DC (Configurable)	
System Features			
21	IP Protection	IP 20 or Better	
22	Transfer Time	0ms	

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① > 16' 2000' ② 10/2/11

24	Alarm / Protection	Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current, Over Load, DC BUS Under / Over Voltage and Battery Low	
25	LED Display	Line Mode, Backup Mode, ECO Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault	
26	LCD Indicator	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Temperature & Remaining Battery Backup time, Load VA/W	

Battery Rack

1	Type	2 Step racks	
3	Rails	Insulated with black polyethylene	
4	Electrolyte protection	The supports needs to be coated with white epoxy powder	
5	Bolt	Easy bolt making installation or alteration possible	
	Features	The Battery Rack should be Compatible and should accommodate the above mentioned battery	
7	Warranty	Minimum 2 years	

Environment

27	Operating Environment	0-45°C	
28	Relative Humidity	0-95%(Non-Condensing)	
29	Noise Level	Low audible noise level	

Standards

30	Quality	ISO 9000, ISO 14001, ISO 27001, RoHS	
31	Safety	IEC/EN62040-1	
32	EMC / Performance	IEC/EN62040-2 ; IEC/EN62040-3, Complying to CE	
33	Warranty	Minimum 2 years / Provided by OEM which ever is greater	
34	Standard	ISO or Equivalent	

Note: Installation and Demonstration is the responsibility of Supplier

Specification of UPS Online 10 KVA

S.N	Parameters	Technical Specification	Remarks
1	Type	1 Phase IN – 1 Phase OUT	
2	Technology	DSP Based Double Conversion	
3	By-Pass	Available	
4	Battery Voltage	96 V DC	
5	Battery Charging Current	1 Amp to 10 Amp	
6	Battery Recommendation	100 Amp to 200 Amp	
7	Indication	LCD Panel	

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8	Alarm	Low Battery, Mains Fail, Over Load, Short Circuit	
9	Mains Mode		
10	No. of Phases	1 Phase - 3 Wire	
11	Voltage Range	170V – 280VAC	
12	IP Frequency Range	47Hz – 53Hz	
13	Output		
14	Power Factor	Minimum 0.9	
15	Phase	1 Phase – 2 wire (P N)	
16	Output Waveform	Pure Sine Wave	
17	Voltage	230V +/-1%	
18	Frequency	50Hz +/- 1%	
19	Load Crest Factor	>3:1	
20	Output Voltage THD	<=3% on linear load	
21	Loading Capacity	110% for 2 Minutes	
Battery			
22	No of Battery	Minimum 8 (Should be Included)	
23	Battery Type	SMF / VRLA / Flooded / Tubular	
24	Battery Capacity	Minimum 100 AH	
Protections			
25	Over Load	Short Circuit	
26	Battery Over Charge	Mains MCB Trip	
27	Surge Protection / Spike Protection	Yes	
28	Warranty	Minimum 2 years / Provided by OEM which ever is greater	
29	Standard	ISO or Equivalent	

Specification of UPS Online 3/ 5 KVA

S.N	Parameters	Technical Specification	Remarks
1	Nominal Input Voltage	220V	
2	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)	
3	Power Factor	Minimum 0.9	
4	Power Output	Minimum 5000VA	
5	Nominal Output Voltage	220V	
6	Output Voltage Distortion	Less than 5% at full load	
7	Topology	Line Interactive	
8	Waveform Type	Pure Sine wave	
9	Internal Battery	Internal Maintenance-free sealed Lead-Acid battery with suspended electrolyte Leakproof	
10	External Battery Modules	Minimum 4	
11	Typical recharge time	Maximum 4 hour(s)	
12	Features	Automatically regulating and smoothing the power supply from voltage fluctuations to better prevent under-voltage brownouts and over-voltage power surges.	

		Protection for short circuit and overload.	
		Both audible and LED indication for UPS status and alarm.	
13	OS Support	Windows, IOS, Linux	
14	Manufacture Date	Less than 6 months on the day of delivery	
15	Standard	ISO or Equivalent	
16	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of Battery UPS 5KVA with External Battery-8 (200AH)

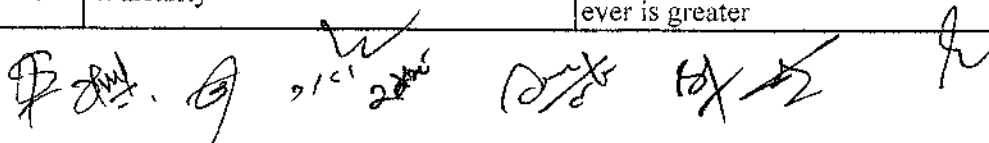
S.N	Parameters	Technical Specification	Remarks
1	Nominal Input Voltage	220V	
2	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)	
3	Power Factor	Minimum 0.9	
4	Power Output	Minimum 5000VA	
5	Nominal Output Voltage	220V	
6	Battery Voltage	96 VDC	
7	Output Voltage Distortion	Less than 5% at full load	
8	Topology	Line Interactive	
9	Waveform Type	Pure Sine wave	
10	External Battery (Should be Included)	Minimum 200AH, Tubular/SMF/VRLA	
11	Features	Automatically regulating and smoothing the power supply from voltage fluctuations to better prevent under-voltage brownouts and over-voltage power surges.	
		Protection for short circuit and overload. Both audible and LED indication for UPS status and alarm.	
12	OS Support	Windows, IOS, Linux	
13	Manufacture Date	Less than 6 months on the day of delivery	
14	Standard	ISO or Equivalent	
15	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of Battery UPS 12V 7.5A

S.N	Parameters	Technical Specification	Remarks
1	Battery Type	Sealed Lead Acid Maintenance Free	
2	Standard	ISO or Equivalent	
3	Date of Manufacture	Less than 6 months on the day of delivery	
4	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of 12 Volt 17 amp UPS Battery

S.N	Parameters	Technical Specification	Remarks
1	Battery Type	Sealed Lead Acid Maintenance Free	
2	Standard	ISO or Equivalent	
3	Date of Manufacture	Less than 6 months on the day of delivery	
4	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	



 21/11/2016

Specification of 12 Volt 12 amp UPS Battery

S.N	Parameters	Technical Specification	Remarks
1	Battery Type	Sealed Lead Acid Maintenance Free	
2	Standard	ISO or Equivalent	
3	Date of Manufacture	Less than 6 months on the day of delivery	
4	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of 12 Volt 7 amp UPS Battery

S.N	Parameters	Technical Specification	Remarks
1	Battery Type	Sealed Lead Acid Maintenance Free	
2	Standard	ISO or Equivalent	
3	Date of Manufacture	Less than 6 months on the day of delivery	
4	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of 12 Volt 5 amp UPS Battery

S.N	Parameters	Technical Specification	Remarks
1	Battery Type	Sealed Lead Acid Maintenance Free	
2	Standard	ISO or Equivalent	
3	Date of Manufacture	Less than 6 months on the day of delivery	
4	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	

Specification of Voltage Stabilizer

S.N	Parameters	Specification	Remarks
1	Capacity	Minimum 0.5 KVA	
2	Usage	For TV, Refrigerator, Computer and other household appliances	
3	Body	Metal	
4	Function	Fully automatic	
5	Response Time	Maximum 20 millisecond	
6	Cooling	Air	
7	Output Voltage	220V \pm 2%	
8	Output Frequency	50 Hz \pm 1%	
9	Warranty	Minimum 1 year/ Provided by OEM which ever is greater	