



## Home UPS

### Features

- DSP Based Design with absolute and stable Sine Wave output voltage and frequency
- State of the art MOSFET based PWM technology with greater efficiency at lower cost with Dynamic Stability
- Over Temperature Protection
- More back-up being a Sine Wave UPS (ASIC Control)
- No humming Noise (Silent UPS)
- Selector Switch for Normal / UPS
- Selector Switch for High Charging and Low Charging
- Intelligent Charger for Deep Discharged Battery.
- Advance Battery Management for longer battery life and prevent battery from overcharging.

### APPLICATIONS

"Power Back-up for House hold as well as the computer  
 "Small Water pumps and all motor based small applications  
 "TV Sets, Fans, Tube Lights, etc.

### TECHNICAL SPECIFICATIONS

Description	650 VA
Output Voltage at No Load	220V±5V AC
Output Frequency	50.0 Hz ± 1.0Hz
Output Wave Form	Sine Wave
Nominal Battery Voltage	12V
Low Battery Cutoff	10.5V ± 0.2V
Input voltage range	(100 VAC-280 VAC) for normal usage (180 VAC-260 VAC) for computer use

### INVERTER MODE

Change Over Time Inverter to Main	<=8msec*
Change over Time to Inverter	<=8msec*
Input Voltage at mains low and high cut	180 V to 260 V ± 5 V

### CHARGING MODE

Charger Current Two Mode	Normal Charging 8.0+/- 3 A
Mains ON; Inverter On; Battery Low; Charged. Short circuit & Overload Short Circuit / Reserve Battery, Over Temperature, Mains Fuse Blown	Mains, UPS On Charging/ Battery Charging / Charged; Over Load Over temperature Mains Fuse Blown





### Technical parameters of Tall Tubular Battery

Battery Type ( 12V )	Capacity	Dry Weight ( Kg )	Filed Weight ( Kg )	Electrolyte Volume	Product overall Dimension ( mm )			Applications
					L	W	H	
<b>Capacity @ C10 Rating</b>								
Kondaas 40	40 Ah	14.75	20.8	5.4	303	171	240	
Kondaas 60	60 Ah	20.7	31.0	7.1	410	172	248	
Kondaas 80	80 Ah	23.0	41.1	16.8	518	275	255	
Kondaas 120	120Ah	32.1	54.7	21.6 ltrs	500	190	416	UPS
Kondaas 500	150Ah	43.0	64.1	19.2 ltrs	500	190	416	Inverter
<b>Capacity @ C20 Rating</b>								
Kondaas 135	135Ah	33.0	55.5	22.0 ltrs	500	190	416	UPS Inverter
Kondaas 500	150Ah	36.0	60.0	22.2 ltrs	500	190	416	
Kondaas 1000	200Ah	48.0	69.0	18.0 ltrs	500	190	416	

## Tall Tubular Battery

### Features

- Higher Charge acceptance
- Specialized lead alloys used for resistance to corrosion leading to longer life
- Very low maintenance
- Deep cycle designed & low self discharge
- Larger size vent plugs used to reduce topping up frequency

ELECTRICAL LOAD	RECOMMENDED INVERTER RATING	RECOMMENDED SYSTEM VOLTAGE	RECOMMENDED BATTERY MODEL WITH BACKUP TIME CALCULATION	
1 Fan + 1 Tube light	200 VA	12V	KT 40@ C10 - 1hr 45 mins KT60@ C10 - 2hr 30 mins KT 65 MASS - 2 hr 30 mins	
2 Fans + 2 Tube lights	400 VA	12 V	KT 80@ C10 1hr 45 mins KT 100 MAAS 2hr	KT 100 @ C20R - 2hr KT 100 @ C10R - 2 hr 30 mins
3 Fans + 3 Tube lights	600 VA	12 V	KT 100 MASS - 1hr KT 100@ C 20R - 1hr KT 100 @ C 10R - 1hr 30mins	KT 120 MASS - 1hr 30 mins KT 20@ C 20R - 1hr 30 mins KT 120 @ C 10R - 2hrs
4 Fans + 4 Tube lights	800 VA	12 V	KT 35 MAAS - 1hr KT 35 @ C20 - 1hr KT 150 MAAS - 1 hr 15 mins	KT 500 @ C20 - 1hr 15 mins KT 500@ C10 - 1hr 45 mins KT 180 MAAS - 1hr 45 mins
5 Fans + 6 Tube lights	1 KVA	24 V	2S- KT 35 MAAS - 2hrs 2S KT 35 @ C20R - 2 hrs 2S KT- 150 MASS - 2 hr 15 mins	2S KT 500 @ C20 - 2hr 15 mins 2S KT 500 @ C10R - 3hrs 2S KT 80 MAAS - 3 hrs
7 Fans + 8 Tube lights	1.5 KVA	24 V	2S KT 150 MAAS - 1hr 30 mins 2S KT 500@ C20R - 1hr 30 mins 2S KT 500 @ C10R - 2 hrs	2S KT 180 MAAS - hrs 2S KT 1000@ C20 2 hr 15 mins
12 Fans + 14 Tube lights	2.5 KVA	48 V	4S KT 100 MAAS - 1hrs 4S KT 100@ C20R - 1 hrs 4S KT 100 @ C10R - 1hr 15 mins 4S KT 120MAAS - 1hr 15 mins	4S KT 120 @ C20R - 1hr 15 mins 4S KT 120 @ C10R - 1hr 45 mins 4S KT 35 MAAS - 1hr 45 mins 4S KT 35 @ C20R - 1hr 45 mins
16 Fans + 22 Tube lights	3.5 KVA	48 V	4S KT 35 MAAS - 1hr 4S KT 35 @ C20R - 1hr 4S KT 150 MAAS - 1hr 15 mins	4S KT 500 @ C20R - 1hr 15 mins 4S KT 500 @ C10R - 1hr 30 mins
20 Fans + 35 Tube lights	5 KVA	96 V	8S KT 100 MAAS - 1hr 8S KT 100 @ C20R - 1hr 8S KT 100 @ C10R - 1hr 15 mins 8S KT 20 MAAS - 1hr 15 mins 8S KT 20 @ C20R - 1hr 15 mins 8S KT 120 @ C10R - 1hr 30 mins	8S KT 35 MAAS - 1hr 30 mins 8S KT 35 @ C20R - 1hr 30 mins 8S KT 50 MAAS - 1hr 45 mins 8S KT 500@ C20R - 1hr 45 mins 8S KT 500 @ C10R - 2 hrs 30 mins

