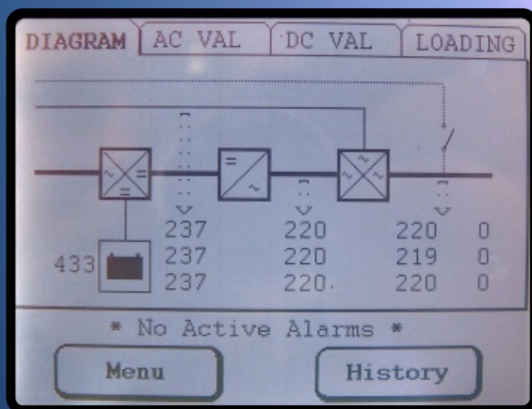


10KVA  
15KVA

# TOWER 3300

20KVA  
30KVA  
40KVA

The Tower 3300 digital controlled series of three phase double conversion Uninterruptible Power Supplies (UPS) provide the highest reliability, stability and continuous clean power to all critical types of external load.

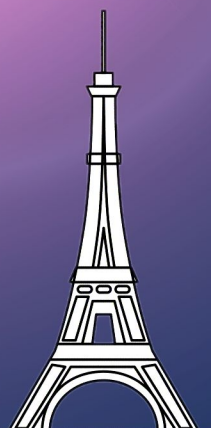


- Smart touch screen interface
- Low input harmonic distortion
- Close to unity input power factor
- Digital Signal Processors charging
- DSP Controlled rectifier and inverter
- Built in Static switch and Manual bypass

The Tower 3300 is Power Expandable via Software for future growth.

- 10KVA Upgradeable to 15KVA
- 20KVA Upgradeable to 30 or 40KVA

Tower Electronic Systems



## SPECIFICATIONS

INPUT	10kVA	15kVA	20kVA	30kVA	40kVA
Voltage	380 -400 -415V ±20%	380 -400 -415V ±20%	380 -400 -415V ±20%	380 -400 -415V ±20%	380 -400 -415V ±20%
Frequency	45 – 65 Hz	50Hz ±4%	50Hz ±4%	50Hz ±4%	50Hz ±4%
Power Factor	0.98	0.98	0.98	0.98	0.98
OUTPUT					
Voltage – (Line – Line) ( Line – Neutral)	380-415V 220-240V	380-415V 220-240V	380-415V 220-240V	380-415V 220-240V	380-415V 220-240V
Voltage stability – static	1%	1%	1%	1%	1%
Voltage stability – dynamic 0 -100%	<5%	<5%	<5%	<5%	<5%
Power Factor	0.8	0.8	0.8	0.8	0.8
Frequency	50Hz +-0.1%	50Hz +-0.1%	50Hz +-0.1%	50Hz +-0.1%	50Hz +-0.1%
Waveform	Sine	Sine	Sine	Sine	Sine
Harmonic distortion (linear loads)	< 2%	< 2%	< 2%	< 2%	< 2%
Harmonic distortion (non linear loads)	< 5%	< 5%	< 5%	< 5%	< 5%
Inverter overload 150%	0.1 seconds	0.1 seconds	0.1 seconds	0.1 seconds	0.1 seconds
Inverter overload 100%	30 seconds	30 seconds	30 seconds	30 seconds	30 seconds
Inverter overload 125%	5 minutes	5 minutes	5 minutes	5 minutes	5 minutes
Crest Factor	3 : 1	3 : 1	3 : 1	3 : 1	3 : 1
BYPASS - Static switch Voltage +-15%	380-415V 220-240V	380-415V 220-240V	380-415V 220-240V	380-415V 220-240V	380-415V 220-240V
BYPASS – Static switch overload	10 times for 1000 m Sec	10 times for 1000 m Sec	10 times for 1000 m Sec	10 times for 1000 m Sec	10 times for 1000 m Sec
Efficiency (input-output)	>90%	>90%	>90%	>90%	>90%
BATTERY					
N° of 12V blocks	32 x 8A/H	32 x 8A/H	32 x 8A/H	32 x 8A/H	32 x 8A/H
Max N° of banks in cabinet	4	4	4	4	4
Float voltage	432V	432V	432V	432V	432V
Battery discharging	384V	384V	384V	384V	384V
Low DC off	335V	335V	335V	335V	335V
Recharge current	10A	10A	10A	10A	10A
Autonomy 100% @ 0.8 pf (4 banks)	~ 50 min	~ 30 min	~ 20 min	~ 15 min	~ 10 min
GENERAL					
Weight of UPS with 4 set of batteries	420kg	420kg	420kg	420kg	420kg
Dimensions of UPS units and extended battery cabinets	D - 890mm H - 1270mm W - 610mm				
Interfacing	Dry Contacts – RS232 for MEGATEC S/W – Ethernet network connection				
Ambient temperature	0 - 40°C –90% maximum humidity				
Noise level	50 - 55dBA @ 1 meter				
PROTECTION (ALL RANGES )					
CIRCUIT BREAKERS AC - rectifier - reserve – bypass – output DC FUSES – Internal batteries					
STATIC SWITCH – analog detection – independent power supply					
ELECTRONIC - peak current limit pulse by pulse – IGBT supervision – overcurrent peak – RMS overload					