

# Power

## Tri Power X33 IGBT

Three Phase UPS 10 to 45kVA



- Model range available: 10 to 200kVA
- IGBT Rectifier
- Low Input THD <4%
- RS232 and dry contacts
- VFI-SS-111 according to IEC 62040-3
- High efficiency up to 95%

Tri Power X33 IGBT uses online double conversion (VFI) technology where the load is always powered by the inverter ensuring a filtered and stabilized sinusoidal voltage. The IGBT rectifier technology ensures a reduction of consumption of reactive power to minimum levels. This results in lower electricity bills and smaller genset sizes. Small footprint and light weight makes installations easier and less space is necessary. Compared to 6 or 12 pulse rectifier systems the heat dissipation is lower and the air condition size can be dimensioned smaller. This results in less CO2 production saving money and protecting our environment. The Tri Power X33 IGBT UPS can be used for any kind of load i.e. IT, Industry and Telecom.

# Tri Power X33 IGBT 10 to 45kVA



## Technical Data

Model	X33 IGBT 10	X33 IGBT 15	X33 IGBT 20	X33 IGBT 30	X33 IGBT 45
Power (kVA)	10	15	20	30	45
<b>INPUT</b>					
Power Factor	> 0,98				
Voltage	230/400 VAC 3phase, 4 Wire, ± 20%				
By-pass Voltage	230/400 VAC 3phase, 4 Wire, ± 20%				
Input THDI	< 4%				
Input frequency	50Hz / 60 Hz ± 5%				
EMI	EN50091-2 Class A				
<b>OUTPUT</b>					
Power (kW)	8	12	16	24	36
Power factor	0.8				
Voltage	230/400 VAC 3phase, 4 Wire, ± 1%				
Frequency	50 Hz / 60Hz				
Frequency tolerance	± 2% (line synchronized); ± 0.2% (free running)				
Efficiency	up to 95%				
Crest factor	3 : 1				
Overload protection	(100%-125% load: 10min) (125%-150% load: 1min) (>150% load: by pass)				
Short circuit protection	Electronic short circuit protection				
THD (at 100% linear load)	< 3%				
<b>BATTERIES</b>					
Type	Sealed Lead Acid - Maintenance Free				
Number of Batteries	2x30 batteries				
End of discharge voltage	2x300 VDC				
Ambient temperature °C	25 °C				
Battery protection	Wall mounted circuit breaker and fuse				
Typical recharge time	6 hours				
Battery test	Automatic or manual				
<b>GENERAL</b>					
Human interface	Text LCD panel, mimic diagram LED panel				
Communication	RS232 and Dry contacts				
Software	T-Mon UPS Management Software (3 clients standard)				
Overtemperature protection	Electronic overtemperature protection				
Temperature range	0°C - 40°C				
Protection degree	IP 20				
Humidity	90% non condensing				
Altitude	< 1000m above sea level				
Acoustic noise	< 50 dBA				
Weight w/o batteries (kg)	96	105	110	183	196
Dimensions HxWxD (mm):	1030x375x725			1445x495x835	
<b>OPTIONS</b>					
Transformer	Galvanic isolation transformer at the input & output				
Parallel operation	1+3 Systems (N+1 redundant, redundant, symetric parallel)				

For contact information visit [www.alphatechnologies.com](http://www.alphatechnologies.com)

The Alpha Group >	North America	Europe, Middle East & Africa		Asia Pacific	Latin & South America	
	USA Tel: +1 360 647 2360 Fax: +1 360 671 4936	Cyprus Tel: +357 25 375 675 Fax: + 357 52 359 595	Germany Tel: +49 9122 79889 0 Fax: +49 9122 79889 21	Lithuania Tel: +370 5 210 5291 Fax: +370 5 210 5292	P.R. China Tel: +852 2736 8663 Fax: +852 2199 7988	Contact USA office
	Canada Tel: +1 604 430 1476 Fax: +1 604 430 8908	Russia Tel: +7 495 925 9844 Fax: +7 495 916 1349	United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870			