

# Power

## Tri Power X33 HE

Three Phase UPS 160 kVA - 200kVA



- Models: 160 and 200kVA
- High efficiency up to 96.5%
- High output power factor  $\cos \phi = 1$
- THDI < 2,5%
- High Flexibility
- Low Total Cost of Ownership
- Zero Impact Source
- Multilingual graphic display

Tri Power X33 HE uses online double conversion (VFI) technology where the load is always powered by the inverter ensuring a filtered and stabilized sinusoidal voltage manufactured with the state of the art IGBT rectifier technology. Offering high efficiency values up to 96.5% even in part load situations saves money on electricity bills protecting at the same time our environment with less CO2 consumption. Light weight and small footprint allows easy, space saving and low cost installation. The 1.0 output power factor of HE 160 and HE 200kVA provides more active power than a traditional UPS and more load expansion. All TRI X33 HE UPS systems are ideal for the protection of critical information and telecommunications networks which can not run the risk of being powered from a poor quality electrical supply.

## Tri Power X33 HE 160 and 200kVA

### Technical Data

Model:	X33 HE 160	X33 HE 200
Power (kVA)	160	200
<b>INPUT</b>		
Rated voltage   Tolerance	380-400-415 VAC three-phase with Neutral   $\pm 20\%$ @ 100% and $-40\%/+20\%$ at 50% load	
Rated frequency	50 Hz / 60 Hz autosensing	
Frequency tolerance	$\pm 20\%$ , 40 - 72 Hz	
Power factor at full load	0,99	
Current distortion	THDI $\leq 2,5\%$	
<b>OUTPUT</b>		
Rated power (kVA)	160	200
Active power (kW)	160	200
Rectifier Type	IGBT	
Galvanic Isolation	No	
Output power factor	1	
Number of phases	3 + N	
Rated voltage (V)	380-400-415 VAC (selectable)	
Static variation	$\pm 1\%$	
Dynamic variation	$\pm 3\%$	
Crest factor (I <sub>peak</sub> /I <sub>rms</sub> )	3 : 1	
Voltage distortion	$\leq 0,5\%$ with linear load / $\leq 3\%$ with non-linear load	
Frequency	50 / 60 Hz	
Frequency stability on battery mode	0,01%	
Short Circuit Current	2,7 x for 0,2 seconds, 1,5 x for 0,3 seconds	
Overload Bypass	110% unlimited, 125% for 60minutes, 150% for 10minutes, 150% for 1minute	
<b>BATTERIES</b>		
Nominal Voltage   Blocks N°	480V   2 x 20	
Type	VRLS AGM / GEL	
Charging Current	25A, temperature compensated	
Recharge time	3 - 6 hours typical	
<b>ENVIRONMENTAL</b>		
Communication	2 Slots for optional SNMP Card / Relay Card / JBUS- / MODBUS- / Proibus / RS232 / USB / LDC / LED	
Operating temperature	0°C - 40°C	
Relative humidity	90% non condensing	
Colour	dark grey RAL7016	
Noise @ 1m distance	$\leq 68\text{dB}$	$\leq 70\text{dB}$
Protection rating	IP 20	
Weight without batteries (kg)	450	460
Dimensions HxWxD (mm)	1900 x 840 x 1050	
Compliance	EN62040-1; EEC Directive LV2006/95/EC EN62040-2 C2; Directive 2004/108/EC, 93/68/EC EN62040-3 VFI-SS-111	



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