Alpha TRI-Power X33T

Three Phase UPS 10 to 30kVA





- Models: 10 to 30kVA
- LCD display with LED's
- > 2x RS232 communication port
- EPO: Emergency Power Off connector
- > Remote alarms contacts and frequency converter
- > PFC Circuit, active control and static bypass
- Slot for SNMP expansion or additional RS232

Alpha TRI-Power X33T uses online double conversion (VFI) technology where the load is always powered by the inverter ensuring a filtered and stabilized sinusoidal voltage. Furthermore the input filters significantly increase the immunity of the load to mains noise and lightning. TRI-Power is able to operate as an Eco Mode/ Line interactive UPS, and selection can be made manually or automatically. In automatic mode TRI-Power uses the most efficient and cost effective way to protect the load, in accordance with the real-time conditions of the mains. When the mains is stable, TRI-Power operates in Eco mode resulting in high energy savings and efficiency jumping to 98%. When the mains voltage and frequency fluctuate outside present parameters, the TRI-Power switches instantaneously to online operation to provide total protection. Not only from mainsfailure, brownouts, sags, spikes but also from more subtle problems such as electrical noise and frequency instability.

Alpha TRI-Power X33T

Technical Data

	Model:	X33T 10	X33T 15	X33T 20	X33T 30
	Nominal Voltage Three Phase:	400V +N	400V +N	400V +N	400V +N
	Voltage Range:	±20%	±20%	±20%	±20%
	Frequency:	45 to 65Hz	45 to 65Hz	45 to 65Hz	45 to 65Hz
	Max. Input Current:	18A	26A	35A	46A
	Power Factor:		0 to 95% (0 to 99%	6 with Active Filter)	
Current Distortion: <27% (<4% with Acitve Filter)				th Acitve Filter)	
	Bypass line		`	,	
	Nominal Voltage Three Phase:	400V+N	400V+N	400V+N	400V+N
	Voltage Range:	400V+IN	±15% (selectabl		400V+IN
	0 0	50 to 0011-		The state of the s	50 to 001 lo
	Frequency:	50 to 60Hz	50 to 60Hz	50 to 60Hz	50 to 60Hz
	equency Stability: ±2%Hz (selectable ±1% to ±6%) utout				
	Output				
	Nominal Power Three Phase:	10kVA	15kVA	20kVA	30kVA
	Active Power kW cos 0.8:	8kW	12kW	16kW	24kW
	Nominal Voltage Three Phase:		400V + N, selectable from	m 346 to 422V in 1V steps	
	Voltage Stability:		±1% static ±5% dy	namic after 5msec	
	Wave Form:	sinusoidal	sinusoidal	sinusoidal	sinusoidal
	Transfer Time:	0ms (online double conversion)	Oms (online double conversion)	0ms (online double conversion)	0ms (online double conversion)
	Voltage Wave Form and Distortion:		2% with linear load, 5	% with non linear load	
	Frequency:	50 or 60Hz selectable	50 or 60Hz selectable	50 or 60Hz selectable	50 or 60Hz selectable
	Frequency Stability:	±0,0	05% in battery operation, ±1% in sy	nchronism with mains (±5% selecta	able)
	Crest factor:	3:1	3:1	3:1	3:1
	Overload:		110% for 5h, 125%	for 10, 150% for 1	
	Inverter Short-circuit Current:	300% for 0.5sec	300% for 0.5sec	300% for 0.5sec	300% for 0.5sec
	Batteries				
	Type:		Maintenance-free	sealed lead-acid	
	Numbers/Voltage/Capacity:	32 x 12V(2 x 192V)	48 x 12V (2 x 288V)	48 x 12V (2 x 288V)	48 x 12V (2 x 288V)
	Recharging Current:	2 to 4A (depends from capacity)			
	attery Recharging Time:	4 to 12 Std. (depends from capacity)			
	, , ,		4 to 12 ota. (depoi	nds nom capacity)	
	System				
	AC-AC Efficiency:	92% online; 98% line interactive			
	Operating Temperature:		0 ÷ 40°C, optimal for		
	Humidity:	0 to 90 % non-condensing	0 to 90 % non-condensing	0 to 90 % non-condensing	0 to 90% non-condensing
	Noise:			ng (on load and temperature)	
	Leakage Current:	<100mA	<100mA	<100mA	<100mA
	Standards:	,	040-1 Electromagnetic Compatibilit	•	
	Protection:	Excessive batter	ry discharge, over current, short ci	9 1	over temperature
	Communication Ports:		2 St. RS232, slot for SNMP-A		
	Remote Signaling:	Volt free contacts	Volt free contacts	Volt free contacts	Volt free contacts
	Software:		Watch & Save for Shu		
	Colour:	RAL 7024 dark grey	RAL 7024 dark grey	RAL 7024 dark grey	RAL 7024 dark grey
	Remote Control:		Emergency Power Off		
	Protection Degree:	IP20	IP20	IP20	IP20

Model, Dimensions, Backup Time and Weight

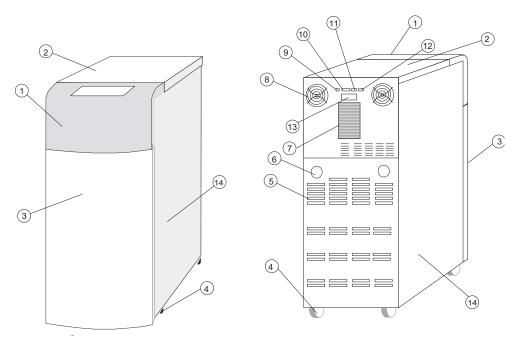
Power kVA	Model	Code	Backup min	Dimensions W x D x H (mm)	Weight kg	Batteries Pc./Ah
10 10 10 10 10 10	X33T 10-0 X33T 10-10 X33T 10-15 X33T 10-20 X33T 10-40 X33T 10-50	TRI-X33T10-0 TRI-X33T10-10 TRI-X33T10-15 TRI-X33T10-20 TRI-X33T10-40 TRI-X33T10-50	0 10 15 20 40 50	450 x 750 x 1200 450 x 750 x 1200	110 200 238 258 378 406	32 x 7Ah 32 x 12Ah 32 x 14Ah 64 x 12Ah 64 x 14Ah
15 15 15 15	X33T 15-0 X33T 15-10 X33T 15-15 X33T 15-20	TRI-X33T15-0 TRI-X33T15-10 TRI-X33T15-15 TRI-X33T15-20	0 10 15 20	450 x 750 x 1200 450 x 750 x 1200 450 x 750 x 1200 450 x 750 x 1200	115 250 305 335	48 x 7Ah 48 x 12Ah 48 x 14Ah
20 20 20 20	X33T 20-0 X33T 20-6 X33T 20-10 X33T 20-15	TRI-X33T20-0 TRI-X33T20-6 TRI-X33T20-10 TRI-X33T20-15	0 6 10 15	450 x 750 x 1200 450 x 750 x 1200 450 x 750 x 1200 450 x 750 x 1200	130 290 320 350	48 x 9Ah 48 x 12Ah 48 x 14Ah
30 30	X33T 30-0 X33T 30-8	TRI-X33T30-0 TRI-X33T30-8	0	450 x 750 x 1200 450 x 750 x 1200	144 370	 48x14Ah

Battery Cabinets for Longer Autonomy

Model	Description	Empty Weight	Dimensions (mm)
2104000000K	Battery cabinet for 18Ah with grounds	66kg	611 x 400 x 1200
4104000000K	Battery cabinet for 26Ah with grounds	114kg	611 x 800 x 1400
3000104000K	Battery cabinet for 33Ah with grounds	123kg	911 x 600 x 1400
410400000K	Battery cabinet for 36Ah with grounds	114kg	611 x 800 x 1400
4000104000K	Battery cabinet for 54Ah with grounds	147kg	911 x 800 x 1400
4000105000K	Battery cabinet for 66Ah with grounds	165kg	911 x 800 x 1400

Backup Time Overview

KVA	10	15	20	30
Ah	Backup Time (min)	Backup Time (min)	Backup Time (min)	Backup Time (min)
18 26 33 36 54 66 72	28 34 55 75 118 145	27 34 54 74 117 143	20 24 35 44 88 105 116	11 18 22 27 44 53 74



- Control panel
 Top panel
 Front panel

- 4. Wheels for the movement
- 5. Rear ventilation holes
- 6. Rear income cables
- 7. Heat sinks

- 8. Fan grid
 9. EPO connector
 10. REMOTE connector
- 11. RS232-2 communications port
- 12. RS232-1 communications port
- 13. Communications card option14. Side panel

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