Tri Power X33 MOD CE 5S BP24

Transformerless Modular Online UPS 10-75kW with internal batteries
3 Phase IN/OUT
Power Factor 1.0
Power Modules 10/15/20/25kW



- Modular, scalable 3-phase UPS system ranging from 10 to 75kW with up to 240 internal 12V/9Ah batteries (VRLA only) N +1 redundancy at the module and system levels for maximum availability without a single point of failure
- Power Walk-in function for a smooth system startup without grid impact or load spikes
- Operation up to +40°C without power reduction for high reliability in demanding environments
- 10" color touchscreen for intuitive operation and complete real-time monitoring of the system

*This product series is not compatible with energy-feedback loads

Based on the proven X33 MOD CE platform, the BP24 variant offers a cost-effective alternative to UPS systems with external battery cabinets, combining full performance, flexibility, and system reliability in a fully integrated solution.

TRI POWER X33 MOD CE

Technical data

Model	X33 MOD CE5S-BP24
Max. power cabinet [kW]	75
Power modules Nominal power [kW]	5x10 5x15 3x20* 3x25* 2x30*
*All slots can always be occupied; however, the UPS may only be operated up to the cabinet's maximum power limit. The UPS's maximum power is set in the software and can be increased up to the power limit by upgrading with additional modules. All modules must be of the same type; mixed configurations are not possible.	

Physical	
Dimensions WxDxH [mm]	600x850x2000
Weigth cabinet [kg]	170 (w/o Batteries)
Weigth module	10kW:19kg, 15,20,25,30kW:21kg

Input	
Nominal voltage	380/400/415 (3Ph+N+PE)
Input voltage range	138-305 40% Last, 305-485 100% Load
Power factor	≥0.99
THI	≤ 3% (100% linear load)
Bypass voltage range	Max. Voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min. Voltage: -45% (Optional -10%, -15%, -20%, -30%)
Bypass frequency range	50/60Hz ± 10%
Nominal voltage	380/400/415 (3Ph+N+PE)
Input voltage range	138-305 40% Last, 305-485 100% Load
Power factor	≥0.99
Output	
Voltage	380/400/415 (3Ph+N+PE)
Voltage regulation	± 1%
Output frequency	Line mode: synchron with Input, in case of deviation >10 % 50/60Hz 0,1%, Battery mode 50/60Hz ± 0,1%
Crest Factor	3 : 1
Harmonic distortion (THDv)	≤ 1% (100% linear load), ≤ 3% (100% non-linear load)
Overload	
Inverter Bypass	≤ 110% 60min, ≤125% 10min, ≤ 150% 1min, > 150% 1,2s until inverter shuts down 30°C: 135% permanent, 40°C: 125% permanent, > 1000% 100ms
Efficiency	
AC Mode	Up to 96,8%
ECO Mode	Up to 99%
HECO Mode	Up to 99%

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Batteries	
Battery type	VRLA
Battery voltage	240 x 12V/9Ah
max. charging current	18A/Powermodule
System Features	
Alarm messages	Mains voltage, bypass mode, low battery, battery error, overload, and UPS system error.
Communication interfaces	RS232, RS485, parallel port, LBS, BMS, dry contacts, relay card (optional), SNMP card (optional), battery temperature sensor (optional)
Overtemperature	Inverter mode: Switch to bypass. Battery mode: Shut down immediately
Self-Diagnosis	At system startup and at any time via the software
Generator -Input	support
EPO	Immediately shut down of UPS
Environment	
Operation temperature	0-40°C
Storage temperature	-25 - 55°C
Humitidy	0-95% (non-condencing)
Altitude [m]	1000m, Derating required>1000m
Noise level [dB]	<58
Standards	
Safety	IEC/EC 62040-1, IEC/EC 62477-1
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)

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