

TRITON M4

TRITON M4 250-500kVA

UPS 250-500kVA system
Online double-conversion
Modular design
250, 300, 400, 500kVA 3p/3p

NEU / NEW

Description

With the TRITON EFFEKTA® offers a modern, modular design, online double-conversion UPS with 3-phase input & output.

The system has a modular construction. For simple commissioning, operation and maintenance of all controls, ports and the module are accessible from the front. (Picture below - view may vary depending on the configuration and model)



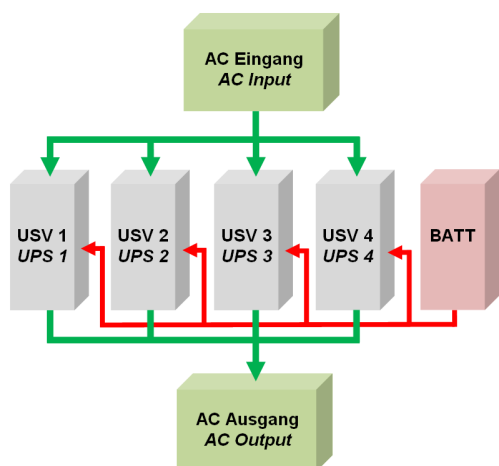
The power modules allow easy maintenance and replacement and therefore low service costs (very low MTTR value).

Further up to 4 of these systems can be operated in parallel.



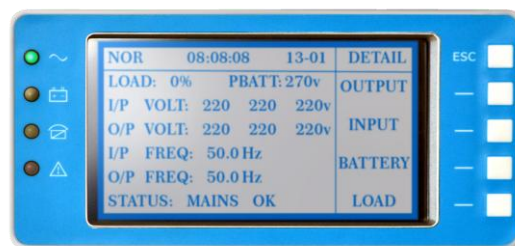
Properties

- UPS classification VFI-SS-111 (IEC 62040-3)
- Online double conversion with sinusoidal output THDI $\leq 3\%$
- Easy maintenance through modular design
- High efficiency (up to 95%) switchable to ECO mode ($> 98\%$, line-interactive)
- High output power factor (0.9)
- High power density (up to 500kVA per cabinet)
- Temperature-controlled fan
- Battery voltage adjustable (32, 34, 36, 38 or 40 x 12V batteries) This can also be used for many existing battery systems
- 100% wrong loadable
- Programmable intelligent maintenance management
- Extensive communication interfaces: (RS232, 2 x RS485, USB, EPO, REPO, 2 x Intelligent Slot for SNMP- or relay card)
- Management software for all common OS
- 12 months warranty



Left hand picture: Up to 4 TRITON-systems can be operated in parallel in N + X redundancy. A unique feature of the TRITON is that a common battery system can be used by the parallel-connected UPSs.

Bottom right: via the central control panel with background-lit LCD display and LEDs the operating status, and the warning messages of UPS and modules are displayed.



Specifications

Model		TRITON M4 250kVA	TRITON M4 300kVA	TRITON M4 400kVA	TRITON M4 500kVA
Capacity	UPS	250kVA / 225kW	300kVA / 270kW	400kVA / 360kW	500kVA / 450kW
Input	Terminals	L1, L2, L3, N, PE			
	Rated Voltage	380/400/415VAC			
	Voltage Range	208-478VAC			
	Frequency Range	40 Hz-70Hz			
	Power Factor	≥0,99			
	THDi	≤3%			
Output	Terminals	L1, L2, L3, N, PE			
	Rated Voltage	380/400/415VAC			
	Power Factor	0.9			
	Voltage Regulation	±1%			
	Frequency	50/60Hz ±01%			
	Crest Factor	3:1			
	THD	≤2% (linear load) / ≤5% (non linear load)			
	Waveform	Pure Sinewave			
Efficiency		max. 95% can be switched to ECO mode (> 98%, line-interactive)			
Batteries	Voltage	192, 204, 216, 228, 240VDC; depending on the battery set			
	Charging current	70A max	80A max	100A max	130A max
Transfer time		Normal operation to battery operation: 0 ms; Normal operation to bypass: 0 ms			
Protection	Overload	Utility mode	≤110% for 60min, ≤125% for 10min, ≤150% for 1min, ≥150% switch to Bypass		
		Battery mode	≤110% for 10min, ≤125% for 1min, ≤150% for 15sek, ≥150% shut down UPS immediately		
		Bypass mode	150% continuous; 1000% for 20 ms		
	Self-diagnostics	Upon Power On and Software Control			
	EPO	Shut down UPS immediately			
Regulations / standards	Safety	EN 62040-1			
EMC	EN 62040-2 Class C3				
Certifications	CE				
Mechanical	Dimensions (HxWxD mm)	2000x600x850	2000x600x850	2000x1200x850	2000x1200x850
	Weight in kg	540	575	842	940
	Protection	IP20			
	Operating -/Storage temp.	Maximum admissible 0 ~ 40°C / 20°C recommended			
	Humidity / Altitude	0-95% non condensing / < 1500m			
	Audible noise	< 55dB @ 1m			
Communication	Status LED & LCD	Line Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault			
	LCD display	In-/output voltage, in-/output frequency, load [%], battery voltage			
	Alarm (optical & acoustical)	Line Failure, battery low, overload, system fault			
Interfaces		RS232, 2 x RS485, USB, EPO, REPO, 2 x Intelligent Slot (for optional relay- or SNMP-card)			