

TRITON – M2

UPS 60-80kVA system
Online double-conversion
Modular design
60, 80kVA 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 is operated with two 30 or 40kVA power modules. Further up to 4 of these systems can be operated in parallel.

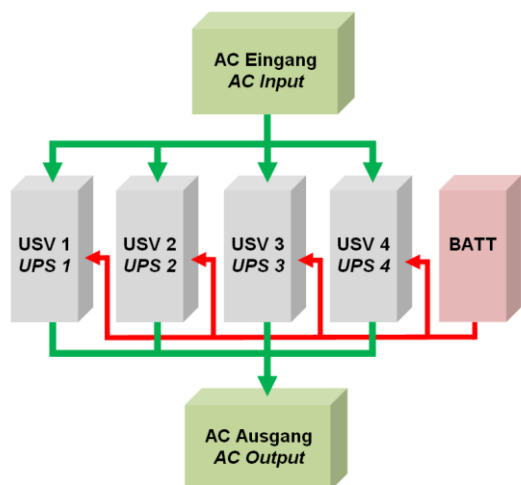


Photo above:
For simple commissioning, operation and maintenance of all controls, ports and the module are accessible from the front.

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

Properties

- UPS classification VFI-SS-111 (IEC 62040-3)
- Online double conversion with sinusoidal output THDI $\leq 3\%$
- Easy maintenance through modular design
- Large input voltage window
- High input power factor up to 1 (0.99)
- High efficiency (up to 95%) switchable to ECO mode (> 98%, line-interactive)
- High output power factor (0.9)
- Monitoring and control via LCD panel
- EPO (remote shutdown)
- Temperature-controlled fan
- 3-step gentle battery charging method
- Extensive communication interfaces
- (2 x RS232, 2 x RS485, 1 x expansion slot for SNMP- or relay card)
- Management software for all common OS
- 12 months warranty



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

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 that a common battery system can be used by the parallel-connected UPSs.



Specifications

Model		TRITON M2 60kVA	TRITON M2 80kVA	
Capacity	UPS	60kVA / 54kW	80kVA / 72kW	
	Module	30kVA / 27kW (x 2)	40kVA / 36kW (x 2)	
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%		
	Generator input	supported		
	Output	Terminals / Rated Voltage	L1, L2, L3, N, PE / 380/400/415VAC	
	Power Factor	0.9		
	Voltage Regulation	±2%		
	Frequency	±1%, ±2%, ±4%, ±5%, ±10% of the rated frequency (optional)		
	Utility mode	50/60Hz ±0.2%		
	Battery mode			
	Crest Factor	3:1		
	THD	≤2% (linear load) / ≤5% (non linear load)		
	Waveform	Pure Sinewave		
Efficiency		max. 95%		
Batteries	Voltage	192, 204, 216, 228, 240VDC; depending on the battery set		
	Charging current	Max. 20A (can be set according to the Battery capacity)		
Transfer time		Normal mode to Battery mode: 0 ms; Normal mode 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		
Battery	Advanced Battery Management			
Regulations / standards	Safety	EN 62040-1		
	EMC	EN 62040-2 Class C3		
	Certifications	CE		
Mechanical	Dimensions (HxWxD mm)	UPS	1200 x 600 x 780	
		Modules	131 x 443 x 580 each module	
	Weight in kg	UPS	189	195
		Modules	33 (x 2)	35 (x 2)
	Protection	IP20		
	Operating -/Storage temp.	0 ~ 40°C / -25 ~ 55°C		
	Humidity / Altitude	0-95% non condensing / < 1500m		
	Audible noise	< 55dB @ 1m		
Communi- cation	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, RS485, EPO, Intelligent Slot x 1 (for optional relay- or SNMP-card)		