TRITON - M1

TRITON - M1

UPS 10-40kVA system
Online double-conversion
Modular design
10, 15, 20, 30, 40kVA 3p/3p

NEU / NEW

Description

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

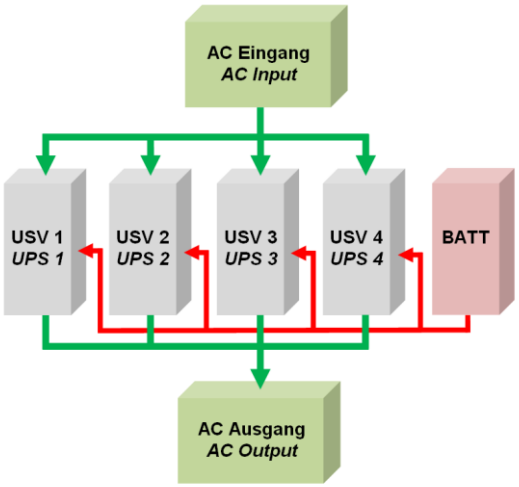
The system is operated with a power module from 10 to a maximum of 40kVA. Further up to 4 of these systems can be operated in parallel.

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 MTTR value).

Properties

- UPS classification VFI-SS-111 (IEC 62040-3)
- Online double conversion with sinusoidal output THDI ≤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

Specifications

Model			TRITON M1 10kVA	TRITON M1 15kVA	TRITON M1 20kVA	TRITON M1 30kVA	TRITON M1 40kVA
Capacity	UPS		10kVA / 9kW	15kVA / 13.5kW	20kVA / 18kW	30kVA / 27kW	40kVA / 36kW
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		L1, L2, L3, N, PE				
	Rated Voltage		380/400/415VAC				
	Power Factor		0.9				
	Voltage Regulation		±2%				
	Frequency	Utility mode	±1%, ±2%, ±4%, ±5%, ±10% of the rated frequency (optional)				
		Battery mode	50/60Hz ±0.2%				
	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				
	Carging current		Max. 6A			Max. 10A	
Transfer time			Normal mode to Batteriy 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				
	Weight in kg	UPS	131	134	135	156	158
		Modules	26	29	31	33	35
	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)				

Modifications and errors excepted