TRITON M3

TRITON M3 100-200kVA

UPS 100-200kVA system
Online double-conversion
Modular design
100, 120, 160, 200kVA 3p/3p

NEU / NEW

Description

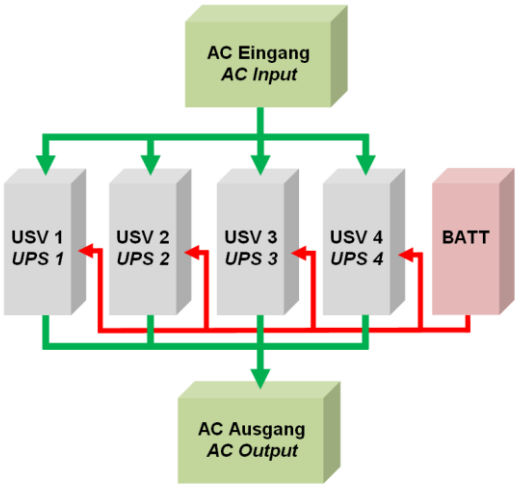
With the TRITON EFFEKTA® offers a modern, modular design, online double-conversion UPS with 3-phase input & output.

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 ≤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:
  (2 x RS232, 2 x RS485, 1 x expansion 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 M3 100kVA	TRITON M3 120kVA	TRITON M3 160kVA	TRITON M3 200kVA
Capacity	UPS		100 kVA / 90 kW	120 kVA / 108 kW	160 kVA / 144 kW	200 kVA / 180 kW
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		2 x 192, 204, 216, 228, 240VDC; depending on the battery set			
	Carging current		24A max	30A max	36A max	50A 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			
	Battery		Advanced Battery Management			
Regulations / standards	Safety		EN 62040-1			
	EMC		EN 62040-2 Class C3			
	Certifications		CE			
Mechanical	Dimensions (HxWxD mm)		1600x600x780	1600x600x780	1600x600x780	1600x600x850
	Weight in kg		286	316	348	413
	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, 2 x RS485, USB, EPO, REPO, 2 x Intelligent Slot (for optional relay- or SNMP-card)			