

# TRITON M1 10-40 kVA

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. In this way, the TRITON achieves a very high power density. Further up to 4 of these systems can be operated in parallel.



Photo above (10-20kVA model):

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  $\leq 3\%$
- Easy maintenance through modular design
- Parallel connection of up to 4 systems possible
- 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  
(RS232, RS485, expansion slot(s) for SNMP-  
or relay card)
- Management software for all common OS
- 24 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.

Furthermore, directly below the display and easily accessible there is the EPO switch for the emergency shutdown of the consumer.



The Triton has extensive front accessible communication interfaces (eg 10-20 kVA).

## Specifications

Model		TRITON M1 10 kVA	TRITON M1 15 kVA	TRITON M1 20 kVA	TRITON M1 30 kVA	TRITON M1 40 kVA
<b>Capacity</b>	UPS	10kVA / 9kW	15kVA / 13.5kW	20kVA / 18kW	30kVA / 27kW	40kVA / 36kW
<b>Input</b>	Terminals	L1, L2, L3, N, PE				
	Rated Voltage	380/400/415VAC				
	Voltage Range	208-478VAC				
	Frequency Range	40Hz-70Hz				
	Power Factor	≥0.99				
	THDi	≤3%				
	Generator input	supported				
<b>Output</b>	Terminals	L1, L2, L3, N, PE				
	Rated Voltage	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	3:1				
Crest Factor	3:1					
THD	≤2% (linear load) / ≤5% (non linear load)					
Waveform	Pure Sinewave					
<b>Efficiency</b>		max. 95%				
<b>Batteries</b>	Voltage	±192, 204, 216, 228, 240VDC; depending on the battery set				
	Charging current	Max. 6A				Max. 10A
<b>Transfer time</b>		Normal mode to Battery mode: 0 ms; Normal mode to Bypass: 0 ms				
<b>Protection</b>	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				
<b>Regulations / standards</b>	Battery	Advanced Battery Management				
Safety	Safety	EN 62040-1				
	EMC	EN 62040-2 Class C3				
	Certifications	CE				
<b>Mechanical</b>	Dimensions (HxWxD mm)	1200 x 600 x 780				
	Weight in kg	131	134	135	156	158
	Protection	IP20				
	Operating /Storage temp.	0 ~ 40°C / -25 ~ 55°C				
	Humidity / Altitude	0-95% non condensing / < 1500m				
	Audible noise	< 55dB @ 1m				
<b>Communication</b>	Status LED & LCD	Line Mode, Eco Mode, Bypass Mode, Battery Low, Overload & UPS Fault				
	LCD display	In-/output voltage, in-/output frequency, load [%], battery voltage				
	Alarm (optical & acoustical)	Line Failure, battery low, overload, system fault				
<b>Interfaces</b>		RS232, RS485, EPO, Intelligent Slot (for optional relay- or SNMP-card)				