

AC large UPS

TRITON M1

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.

10, 15 and 20 kVA are optionally available with a power factor of 1.0



■ Details



Modules accessible from the front



Power modules

Options for extended communication and maximum availability:

- SNMP/web or relay card for monitoring in network environments
- Additional battery modules to provide an uninterruptible power supply for up to several hours
- External manual bypass for planned UPS maintenance work or replacement of the UPS unit without shutting it down
- Extended warranty arrangements
- Customer-oriented individual service and maintenance contracts

■ Characteristics

- UPS classification VFI-SS-111 (IEC 62040-3)
- Online double conversion with sinusoidal output
- Easy maintenance through modular design
- Parallel connection of up to 4 systems possible
- Large input voltage range
- 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)
- 10, 15, 20kVA optionally with power factor 1,0
- EPO (remote shutdown)
- Temperature-controlled fan
- 3-step gentle battery charging method
- Extensive communication interfaces
- Management software for all common OS
- 24 months warranty

■ Specifications

TRITON M1		10 kVA*	15 kVA*	20 kVA*	30 kVA	40 kVA
Power	Power in VA	10000	15000	20000	30000	40000
	Power in W	9000	13500	18000	27000	36000
Autonomy time 100% / 50% load (cos. phi 0,7)	With internal batteries in minutes	9 / 21	2 / 5	9 / 21	2 / 5	7 / 17
	Longer autonomy times on request					
Technology	Online double conversion	VFI-SS-111 in accordance with IEC 62040-3				
Phase	Input / Output	3-phase / 3-phase				
Input	Nominal voltage	380/400/415 VAC				
	Input voltage range	208-478 VAC				
	Input frequency range	50/60 Hz (Auto-Sensing)				
	Circuit feedback THDI	< 3%				
Output	Output voltage	380/400/415 VAC				
	Voltage Regulation	±2%				
	Power factor*	0,9 (optional 1,0)				0,9
	Frequency Range	50 Hz or 60 Hz ± 1 Hz				
	Transfer time	none				
	Overload Capability (Line Mode)	< 125%: 10 min. / < 150%: 1 min				
	Voltage form	sine wave				
Efficiency	Normal mode / ECO mode	max. 95 / 98%				
Battery	Type	Maintenance free lead-acid battery				
	Life time	5 years, optional 10 years				
	Charging current (max)	6 A				10 A
	Recharging time	2 h, dependent on accumulator capacity				
Communication	Interface	RS232, RS485, EPO, REPO				USB, RS232, RS485, EPO, REPO dry contact, Temp.sensor
	Communication cards	Optional relay contacts or SNMP card				
	Slot for communication cards	1				2
	Display	multi language LC-Display				
Dimensions / Weight	Parallel switching	Max. 4 systems for redundancy or to boost performance				
	Dimensions UPS (H x W x D in mm)	1200 x 600 x 780				
	Weight UPS (With standard accumulator)	287 kg	291 kg	393 kg	402 kg	573 kg
	Weight battery pack	depending on the quantity of batteries				
Terminals	Protection	IP 20 (optionally higher protection class possible)				
	Input	Fixed connection on terminals				
Environmental conditions	Output	Fixed connection on terminals				
	Temperature	0°C – 40°C, 20°C recommended				
	Humidity	0-90 % RH @ 0- 40°C (non condensing)				
Safety / Enclosure	Acoustic Noise	< 55 dB				
	Safety	EN 62040-1				
	EMC	EN 62040-2, class C3				
	Certifications	CE				

* For the optionally available 10, 15, 20kVA models with power factor 1: kVA = KW