

AC large UPS

TRITON M2

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.

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



■ Details



Modules accessible from the front

To make commissioning, operation and maintenance as simple as possible, the modules as well as all controls and interfaces can be accessed from the front.

The intelligent slots provide expansion options for additional communication boards.

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
- 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)
- 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 M2		60 kVA	80 kVA
Power	Power in VA	60000	80000
	Power in W	54000	72000
Autonomy time 100% / 50% load (cos. phi 0,7)	With internal batteries in minutes	7 / 17	4 / 10
	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	
	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)	10A	
	Recharging time	8 h, dependent on accumulator capacity	
Communication	Interface	USB, RS232, RS485, EPO, REPO dry contact, Temp.sensor	
	Communication cards	Optional relay contacts or SNMP card	
	Slot for communication cards	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 (without accumulators)	189 kg	195 kg
	Dimensions of battery extension (H x W x D in mm)	1200 x 600 x 780	
	Weight battery cabinet with standard configuration	606 kg	881 kg
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	