

UPS large systems

TRITON PF1

With the TRITON PF1 UPS, EFFEKTA® offers a modern, modular online double-converter with 3-phase input and output.

The system is operated with a power module from 10 to max. 40 kVA. In this way, the TRITON achieves a very high-power density. The system is operated with a power module from 10 to max. 40 kVA. In this way, the TRITON achieves a very high-power density.

The TRITON PF1 has a power factor of 1.0 throughout from 10-40 kVA.



Detail view



Front accessible modules



Front of a power module

Options for extended communication and highest availability:

- SNMP/Web or relay card for monitoring in network environment
- Additional battery cabinets to increase the bridging time to several hours
- External manual bypass for scheduled UPS maintenance or UPS replacement without shutdown
- Warranty Extensions
- Customer-oriented individual service and maintenance contracts

■ Characteristics

- UPS classification VFI-SS-111 according to IEC 62040-3
- Online double-converter with sine output THDI $\leq 3\%$
- Simple service thanks to the modular structure
- Up to 4 systems can be connected in parallel
- Large voltage input window
- High efficiency (up to 95%)
- Switchable to ECO mode ($> 98\%$, line-interactive)
- All models with a power factor of 1.0
- EPO (Emergency Power Off / Remote Power Off)
- Temperature controlled fans
- 3-stage gentle battery charging process
- Extensive communication interfaces
- Management software for all common OS
- 24 months warranty

■ Specifications

Model TRITON PF1		10 kVA	15 kVA	20 kVA	30 kVA	40 kVA
Input (AC)	Nominal power in VA/W	10000	15000	20000	30000	40000
Autonomy time @ 100/50% Load (cos. phi 0.8)	As standard in min.	12 / 30	6 / 23	12 / 30	2 / 13	7 / 30
	higher autonomy times on request					
Technology	Online double conversion	VFI-SS-111 according to IEC 62040-3				
Phase	Input / Output	3-phase / 3-phase				
Input	Nominal voltage configurable	380/400/415VAC				
	Input voltage range	208-478VAC				
	Input frequency range	50/60Hz (autodetect)				
	Distortion (THDi)	< 3%				
Output	Output voltage	380/400/415VAC				
	Voltage regulation	$\pm 1\%$				
	Power factor	1.0				
	Frequency range	50Hz or 60Hz $\pm 0.2\text{Hz}$				
	Transfer time	0ms				
	Overload Capability (Line Mode)	< 125% for 10 min/ < 150% for 1 min				
	Voltage form	Sinewave				
	Normal-Mode / ECO-Mode	max. 94.5 / 98%				
Efficiency	Type	maintenance-free sealed lead fleece batteries				
	Expected service life	5 years/ optional 10 years				
	Max. charging current standard	14A	16A	18A	20A	
	Time to recharge	from 2 h., depending on the battery capacity				
Communication	Interfaces	RS232, RS485, Parallel, Intelligent slot, Relay card (optional), SNMP card(optional)				
	Communication cards (option)	Relay- or SNMP-card				
	Slots for communication cards	2				
Dimensions / Weight	Display	multilingual LC-display				
	Parallel connection	max. 4 units for redundancy or increasing output power				
	Dimensions UPS (HxWxD in mm)	1600 x 600 x 780				
	UPS weight in kg (with standard battery configuration)	288	288	388	384	573
Terminals	Weight of battery cabinet in kg	depending on the battery capacity				
	Protection	IP 20 (optionally higher protection class possible)				
	Input	hardwired				
Environmental conditions	Output	hardwired				
	Temperature	0°C – 40°C, 20°C recommended				
	Humidity	0-90 % RH @ 0- 40°C (not condensing)				
	Operation noise	<55dB				
Safety / Standards	Safety	EN 62040-1				
	EMC	EN 62040-2 class C3				
	Standards	CE				