UPS
TRIAS RM 6 / 10 kVA

The new TRIAS RM UPS system from EFFEKTA® is one of the few 19“ systems with 3-phase input and 1-phase output in 19“ design.
With 6 kVA or 10 kVA output power at power factor 1 allows a setup of a highly available UPS system in 19“ cabinets.
By parallel connection up to 4 systems can be combined to achieve n+x redundancy.
The TRIAS RM is thus an ideal solution for servers, banks, industrial/IT equipment, communication systems and other network devices that require comprehensive protection.

Detail view

Left image from top to bottom:
Rear of the connection unit (PDU)
Back of the UPS
Back of the battery pack

Above:
All important information on a clear backlit and multilingual 2.4“ LC colour touch display

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
- Special designs available for industrial applications (connections / special housings, etc.)

Characteristics

- UPS classification VFI-SS-111 according to IEC 62040-3
- Online double converter with sine wave output switchable to ECO mode
- Service-friendly battery exchange
- UPS software for all common operating systems
- Integrated remote emergency stop contact (REPO)
- 24 months warranty

Highlights

- 3-phase input
- Unbeatable price advantage in this power class
- Excellent power factor of 1.0
- Mains feedback THDi <3%
- Automatic battery test adjustable via display
- Parallel redundant n+x operation possible
- Multilingual 2.4" LC colour touch display

Specifications

Model TRIAS RM		6 kVA	10 kVA
Power	Nominal power in VA/W	6000	10000
Autonomy time	Standard configuration in min at 100%/50% load	8 / 20	10 / 25
	Longer autonomy times on request		
Technology	On-line double converter	VFI-SS-111 according to IEC 62040-3	
Phase	Input / Output	1-phase/1-phase or 3-phase/1phase	
Input	Nominal voltage configurable	380/400/415VAC or 220/230/240VAC	
	Input voltage range	208~478VAC or 120~276VAC	
	Input frequency range	40-70Hz (autodetect)	
	Distortion (THDi)	≤3% (100% non-linear load)	
Output	Output voltage	220/230/240VAC	
	Power factor	1.0	
	Voltage regulation	±1%	
	Frequency range	Mains operation: ±1%, ±2%, ±4%, ±5%, ±10% of nominal frequency (optional) Battery operation: 50 Hz / 60 Hz ± 0.2Hz	
	Transfer time	0 ms	
	Overload Capability (Line Mode)	≤110%: for 60 min, ≤125%: for 10 min, ≤150%: for 1 min, ≥150% immediate switchover to the bypass.	
	Overload Capability (Battery Mode)	≤110%: for 10 min, ≤125%: for 1 min, ≤150%: for 1 sec, ≥150% immediate switch-off of the UPS.	
	Voltage form	Sine wave	
	Crest-Factor	3:1	
	THD	≤2% @ linear load ≤5% @ non-linear load	
Efficiency	Normal Mode	max. 93.5%	
Battery	Type	maintenance-free sealed lead fleece batteries	
	Expected service life	5 years (optional 10 years)	
	DC rated voltage	192-240VDC adjustable, Standard 240VDC	
	Max. charging current standard	max. 12A	max. 14A
Communication	Interfaces	RS232, RS485, Parallel, REPO, MAINTAIN- AUXSWS port	
	Slots for communication cards	1 x for Relays- or SNMP-card	
	Display	LCD-Display and LEDs	
Dimensions / weight	Dimensions UPS (HxWxD in mm)	131 (3U) x 443 x 675	
	Weight UPS in kg	27	28
	Dimensions (HxWxD mm)	131 (3U) x 443 x 720	
	Weight battery pack incl. batt. in kg	80	
	Dim. connection box (HxWxD in mm)	131 (3U) x 443 x 655	
	Weight connection box in kg	12	
Terminals UPS / connection box	Protection	IP20	
Connections Battery	Input	Fixed connection on terminals	
Environmental conditions	Output	Fixed connection on terminals	
Protection / Standards	Battery pack	Battery cable with plug from / to UPS	
	Temperature	0°C – 40°C, 20°C recommended	
	Humidity	0-95 % RH (non-condensing)	
	Safety	EN 62040-1	
	EMC	EN 62040-2 class C3	
	Standards	CE	