

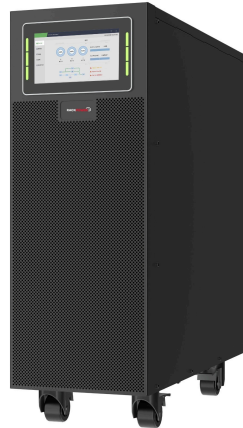
THREE PHASE ONLINE DOUBLE CONVERSION UPS

PRODUCT CODE

10kVA Tower UPS – 20 Batteries

TT010EB-20

A 10kVA/10kW three-phase online double-conversion tower UPS with 20 internal 12 V 9 Ah batteries (± 120 VDC). Input, bypass, output, maintenance bypass and battery breakers are built in, with a 7-inch touch LCD, Ethernet, RS232, RS485, USB, dry contacts, an intelligent slot and parallel ports.


10kVA

10kW · Output PF 1.0

3 / 3

Three-phase in and out

 ± 120 VDC

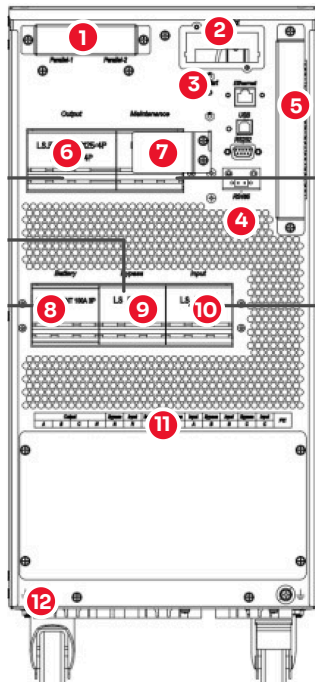
20 × 12 V 9 Ah internal

Up to 97%

Online efficiency

Bypass

Internal maintenance

REAR PANEL


1. Parallel ports P1 / P2
2. Intelligent slot
3. Cold start button
4. Ethernet, USB, RS232, RS485
5. Dry contact terminals
6. Output breaker
7. Maintenance bypass breaker
8. Battery breaker
9. Bypass breaker
10. Input breaker
11. Power terminals
12. Earth studs

KEY FEATURES

- Online double conversion, VFI-SS-111
- Unity output PF – full 10000 W usable
- Up to 97% efficiency in online mode
- 20 × 12 V 9 Ah internal batteries
- 304–478 VAC input, input PF >0.99
- 7-inch touch LCD with status LEDs
- USB, RS232, RS485, Ethernet, dry contacts
- Intelligent slot for SNMP or AS400 card
- Parallel kit option for N+1 or capacity
- Built-in maintenance bypass breaker

Technical specifications

GENERAL

Model	TT010EB-20
Topology	Online double conversion
Rated power	10000 VA / 10000 W
Configuration	3/3 (3/1, 1/1 optional)
Display	LED + 7-inch touch LCD
Form factor	Tower with castors

INPUT

Connection	3P + N + PE
Rated voltage	380 / 400 / 415 VAC (L-L)
Voltage range	304–478 VAC (full load)
Low-voltage range	228–304 VAC, derates to 50%
Frequency	40–70 Hz
Power factor	>0.99
Current THDi	<2% (linear load)
Max current	19 A per phase

BATTERY (INTERNAL)

Batteries	20 × 12 V 9 Ah VRLA
Nominal voltage	±120 VDC
Charger capacity	4.3% × rated output
Float charge	2.25 V/cell (2.2–2.35)
Max battery current	44 A

OUTPUT

Rated voltage	380 / 400 / 415 VAC (L-L)
Frequency	50 / 60 Hz
Power factor	1.0
Rated current	15 A per phase
Voltage accuracy	±1%
Waveform THD	<1% linear; <5% non-linear
Phase accuracy	120° ±0.5°
Crest factor	3:1
Efficiency	Up to 97% (online mode)
Overload	110%: 1 h · 125%: 10 min · 150%: 1 min · >150%: 200 ms
Single-phase output	10 kVA

COMMUNICATIONS

Standard ports	USB, RS232, RS485, Ethernet
Dry contacts	Input and output contacts
Remote EPO	NO or NC contact
Intelligent slot	UTTSNMP or UTTAS400 card
Parallel	Parallel kit optional
Cold start	Yes

Specifications may change as products are updated and improved.

Technical specifications (continued)

PHYSICAL		ENVIRONMENT	
Dimensions (mm)	250 W × 645 D × 556 H	Operating temp.	0–40 °C
Net weight (with batteries)	90 kg	Storage temp.	–25–70 °C
Heat output	≈309 W (1,055 BTU/h)	Humidity	0–95%, non-condensing
Colour	Black	Altitude	≤3000 m; –2% per 100 m above
Protection	IP20	Noise (1 m)	65 dB full load; 62 dB at 45%
INSTALLATION		STANDARDS	
Breakers in / byp / out (A)	32 / 32 / 32 (3P)	Safety	IEC 62040-1 / AS 62040.1
Battery breaker	DC 50 A	EMC	IEC 62040-2 / AS 62040.2, C3
Cables in / byp / out (mm²)	6 / 6 / 6	Performance	IEC 62040-3 (VFI-SS-111)
Cables batt / PE (mm²)	10 / 6	Approval	RCM (AU & NZ)
		RELATED ACCESSORIES	
		UTTSNMP	SNMP network card
		UTTAS400	AS400 dry contact card
		Parallel kit	N+1 or capacity parallel
		Air filter	For dusty environments

RUNTIME GUIDE · minutes at % of rated load (10000 W)

Configuration	100%	75%	50%	25%
TT010EB-20, internal batteries (20 × 12 V 9 Ah)	3	4	9	22

Runtimes are approximate; varies with load, battery age and temperature. For longer runtimes, ask us about a custom battery cabinet.

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