ONLINE DOUBLE CONVERSION UPS

10kVA Tower UPS

PRODUCT CODE

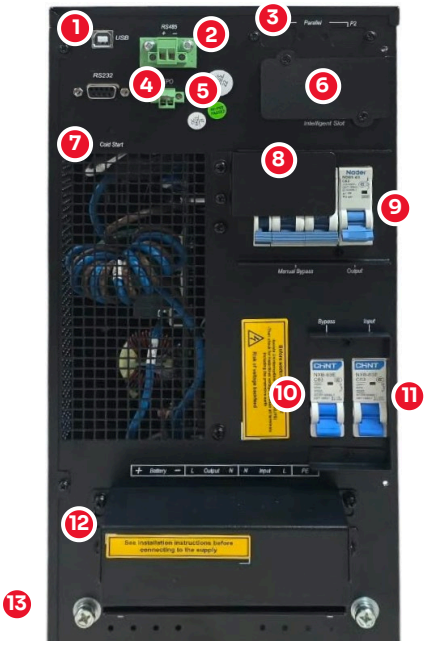
USS010B

A 10kVA/10kW online double-conversion tower UPS with 16 internal 12 V 9 Ah batteries, hardwired input and output, and built-in input, bypass and output breakers with an internal maintenance bypass switch. RS232, RS485, an intelligent slot and parallel ports suit larger comms rooms and building services.



10kVA / 10kW Output PF 1.0	**Online** Double conversion	**192 VDC** 16 × 12 V 9 Ah internal	**0 ms** Transfer to battery	**Internal bypass** Maintenance switch

REAR PANEL



1. USB port (type B)
2. RS485 port
3. Parallel ports P1 / P2
4. RS232 port (DB9)
5. EPO terminal
6. Intelligent slot
7. Cold start button
8. Manual bypass switch
9. Output breaker
10. Bypass breaker
11. Input breaker
12. Terminals – input, output, battery
13. Earth stud

KEY FEATURES

- Online double conversion, 0 ms transfer
- Unity output PF – full 10000 W usable
- 3-level topology, full digital control
- Up to 95.5% online, 98% in ECO mode
- 16 × 12 V 9 Ah internal, 192 VDC
- Expandable with UCB16T-192 modules
- Internal manual maintenance bypass
- Input, bypass and output breakers
- RS232, RS485, USB, EPO and cold start
- Parallel ports for N+1 or extra capacity

Technical specifications

GENERAL	
Model	USS010B
Topology	Online double conversion
Rated power	10000 VA / 10000 W
Operating modes	Online, ECO, battery, bypass
Form factor	Tower

INPUT	
Voltage range	110–288 VAC
Frequency	40–70 Hz
Power factor	≥0.99 (full load)
Max current	60 A
Connection	Hardwired terminals

OUTPUT	
Voltage	220 / 230 / 240 VAC
Rated current	45 / 43 / 42 A (220–240 V)
Power factor	1.0
Voltage regulation	±1%
Waveform THD	≤1% linear; ≤5% non-linear
Crest factor	3:1 maximum
Transfer time	0 ms to battery and bypass
Efficiency	Up to 95.5% online; 98% ECO
Overload	110%: 10 min · 125%: 1 min · 150%: 30 s
Outlets	Hardwired terminal block

BATTERY (INTERNAL)	
Batteries	16 × 12 V 9 Ah VRLA
Nominal voltage	192 VDC
Design life	10 years (standby)
Charger current	1 A
Expansion	UCB16T-192 modules

COMMUNICATIONS	
Standard ports	RS232, RS485, USB, EPO
Intelligent slot	1 × slot
Slot cards (optional)	SNMP or AS400 card
Parallel	P1 / P2 ports, kit optional
Software	UPSView (local); SNMP web

PHYSICAL	
Dimensions (mm)	190 W × 495 D × 550 H
Net weight	60 kg
Heat output	≈471 W (1,608 BTU/h)
Breakers (A)	63 in / 63 out / 80 batt
In the box	UPS, user manual

ENVIRONMENT	
Operating temp.	0–40 °C (indoor)
Storage temp.	0–70 °C
Humidity	<95%, non-condensing
Altitude	<1000 m without derating
Clearance	≥0.5 m on each side

STANDARDS	
Safety	EN IEC 62040-1:2019
EMC	EN IEC 62040-2:2018, C3
Approval	RCM (AU & NZ)

RELATED ACCESSORIES	
UCB16T-192	Tower battery module
USSSNMP	SNMP network card
USSAS400	AS400 dry contact card
USSEMS	Environmental sensor
Parallel kit	N+1 or capacity parallel
UPSBS-B801	63 A maintenance bypass

Specifications may change as products are updated and improved.

Runtime guide

Minutes of runtime for the USS010B at 100, 75, 50 and 25% of rated load (10000 W), on internal batteries and with up to three UCB16T-192 battery modules.

Configuration	100%	75%	50%	25%
USS010B, internal batteries only	2	3	5	16
+ 1 × UCB16T-192 battery module	6	10	16	42
+ 2 × UCB16T-192 battery modules	11	17	28	67
+ 3 × UCB16T-192 battery modules	16	23	42	95

Approximate; varies with load, battery age and temperature. Further modules can be added. Beyond four modules, we recommend the long-run model with an external battery bank.

Need a different runtime?

Tell us your load and the runtime you need, and we will size the battery modules or a long-run model and external battery bank to suit. Call 0800 452 140 or email sales@rackpower.co.nz.

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