ONLINE DOUBLE CONVERSION UPS

1kVA Rack UPS

PRODUCT CODE

USS001BR

A 1kVA/1kW online double-conversion rack UPS with three internal 12 V 9 Ah batteries and an external battery port. Runtime scales by adding UCB06R-36 rack battery modules, and an intelligent slot takes an SNMP network card or an AS400 dry-contact card for monitoring and BMS signalling.



1kVA / 1kW
Output PF 1.0

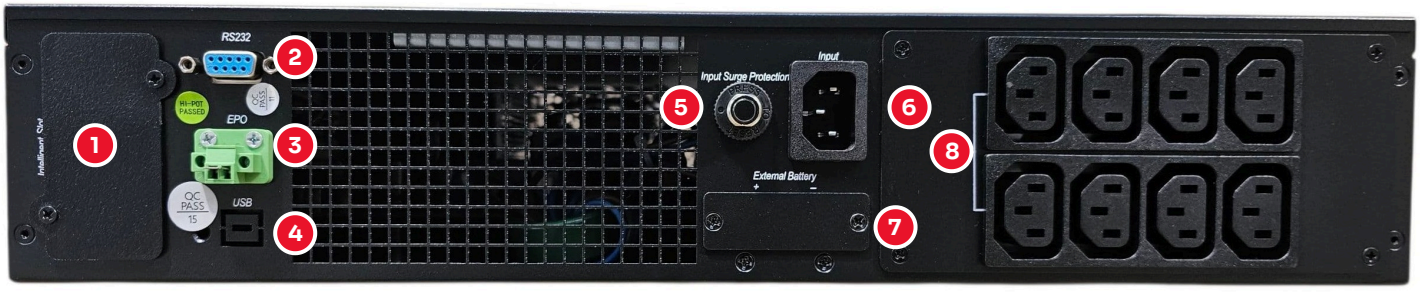
Online
Double conversion

36 VDC
3 × 12 V 9 Ah internal

0 ms
Transfer to battery

Expandable
Add battery modules

REAR PANEL



1. Intelligent slot
2. RS232 port (DB9)
3. EPO terminal
4. USB port (type B)
5. Input surge protection
6. Input – IEC C14, 10 A
7. External battery port
8. Output – 8 × IEC C13

KEY FEATURES

- Online double conversion, 0 ms to battery
- Unity output PF – full 1000 W usable
- 110–300 VAC input range, input PF ≥0.99
- Up to 96% efficiency in online mode
- 12 V 9 Ah batteries, 10-year design life
- Expandable with UCB06R-36 modules
- Intelligent slot for an SNMP or AS400 card
- RS232, USB and EPO as standard
- Selectable ECO mode and 200–240 VAC output
- 2RU rack mount, tower with URTK04 kit

Technical specifications

GENERAL	
Model	USS001BR
Topology	Online double conversion
Rated power	1000 VA / 1000 W
Operating modes	Online, ECO, battery, bypass
Form factor	2RU rack; tower with URTK04

INPUT	
Voltage range	110–300 VAC
Frequency	50 / 60 Hz ±5 Hz
Power factor	≥0.99 (full load)
Max current	5.5 A
Connection	IEC C14 inlet, 10 A

OUTPUT	
Voltage	200 / 208 / 220 / 230 / 240 VAC
Rated current	5 / 4.8 / 4.5 / 4.3 / 4.2 A
Power factor	1.0
Voltage regulation	±1%
Waveform THD	<2% linear; <5% non-linear
Crest factor	3:1 maximum
Transfer time	0 ms to battery; 4 ms to bypass
Efficiency	Up to 96% (online mode)
Overload	102–110%: 30 min · 110–125%: 10 min · 125–150%: 30 s
Outlets	8 × IEC C13

BATTERY (INTERNAL)	
Batteries	3 × 12 V 9 Ah VRLA
Nominal voltage	36 VDC
Design life	10 years (standby)
Charger current	1 A
Expansion	UCB06R-36 modules

COMMUNICATIONS	
Standard ports	RS232 (DB9), USB type B, EPO
Intelligent slot	1 × slot
Slot cards (optional)	SNMP or AS400 card
Software	UPSView (local); SNMP web

PHYSICAL	
Dimensions (mm)	440 W × 440 D × 86 H
Net weight	19 kg
Heat output	≈42 W (142 BTU/h)
In the box	UPS, manual, input cable

ENVIRONMENT	
Operating temp.	0–40 °C (indoor)
Storage temp.	–20–70 °C
Humidity	<95%, non-condensing
Altitude	<1000 m without derating

STANDARDS	
Safety	EN IEC 62040-1:2019
EMC	EN IEC 62040-2:2018, C2
Approval	RCM (AU & NZ)

RELATED ACCESSORIES	
UCB06R-36	Rack battery module
USSSNMP	SNMP network card
USSAS400	AS400 dry contact card
USSEMS	Environmental sensor
URK02 / URTK04	Rail kit / rack-tower kit
UPSBS-B2-02	Maintenance bypass switch

ALTITUDE DERATING				
Altitude (m)	1000	2000	3000	4000
Output power	100%	91%	82%	74%

Specifications may change as products are updated and improved.

Runtime guide

Minutes of runtime for the USS001BR at 100, 75, 50 and 25% of rated load (1000 W), on internal batteries and with up to three UCB06R-36 battery modules.

Configuration	100%	75%	50%	25%
USS001BR, internal batteries only	5	9	15	37
+ 1 × UCB06R-36 battery module	27	36	59	140
+ 2 × UCB06R-36 battery modules	49	71	117	275
+ 3 × UCB06R-36 battery modules	75	109	171	401

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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