



Redlab 1000

The absolute protector

Specifications



Capacity	1000 VA / 1000 W
Type	On-line
Input	
Nominal Voltage	230 VAC
Accepted Voltage Range	110-300 VAC $\pm$ 5% @ 50% load 160-300 VAC $\pm$ 5% @ 100% load
Nominal Frequency	50 Hz / 60 Hz (Auto Sensing)
Frequency Range	40Hz ~ 70 Hz
Power Factor	$\geq$ 0.99 at nominal voltage (100% load)
Harmonic Distortion	$\leq$ 5 % THD at nominal input voltage
Phase	Single phase with ground
Output	
Nominal Voltage	200*/208*/220/230/240 VAC
AC Voltage Regulation (Batt. Mode)	$\pm$ 1%
Frequency Range (Batt. Mode)	50 Hz $\pm$ 0.1 Hz
Frequency Range (Synchronized Range)	47 ~ 53 Hz
Current Crest Ratio	3:1 (max.)
Harmonic Distortion	$\leq$ 2 % THD (Linear Load) $\leq$ 4 % THD (Non-linear Load)
Waveform (Batt. Mode)	Pure Sinewave
Transfer Time	
AC Mode to Batt. Mode	Zero
Inverter to Bypass	Typical 4 ms
Efficiency	
AC Mode	$\geq$ 89 % at full charged battery
To Battery Mode	$\geq$ 88 % at full charged battery
ECO Mode	$\geq$ 95 % at full charged battery



True double
conversion



Output Power
Factor 1.0



Rack/Tower
design

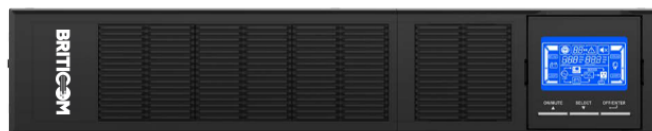
- Pure sine wave output
- True Double Conversion
- Auto-Restart while AC is recovering
- Cold start
- Internal bypass
- Hot swappable battery design
- External battery pack (optional)
- High efficiency up to 96%
- User-friendly and easy-shift LCD
- Generator compatible
- EPO function
- Software management
- Smart battery charger design to optimize battery performance

*Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.



Indicators type

LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions
Alarm	Load Capacity, Load & Battery level, AC mode, Battery mode, Bypass mode and Fault indicators etc.
Protection	
Full protection	Overload, Discharge & Over charge protection, Input spike protection, Over-temperature
Surge rating energy	624 Joules
Outlets type	
Input/Output	2 x RJ11/45(IN/OUT) for modem/phone/LAN surge protection
Input	1 x IEC-320 C14
Output	8 x IEC C13 (4 x Programmable power management outlets)
Battery	
Battery Type & Number	3 x HR07122H battery (included) (BTVACGUBBTE2HAZ01B)
Function	Hot-swappable
Battery Compatibility	nJoy HR07122H
Charging Current (Max.)	Default: 2A, Max: 12A (adjustable)
Charging Voltage	41.1 VDC $\pm$ 1%
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current
Running time on battery (minutes)	25% Load - 31 min 50% Load - 13 min 75% Load - 8 min 100% Load - 4 min



Environment

Humidity	0-95 % RH @ 0-40°C (non-condensing)
Operating Temperature	0 - 40 °C
Storage temperature	-15 - 45 °C
Noise level	Less than 50dB

Management

Connection port	RS232 / USB / Intelligent Port (not included in the package)
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Software

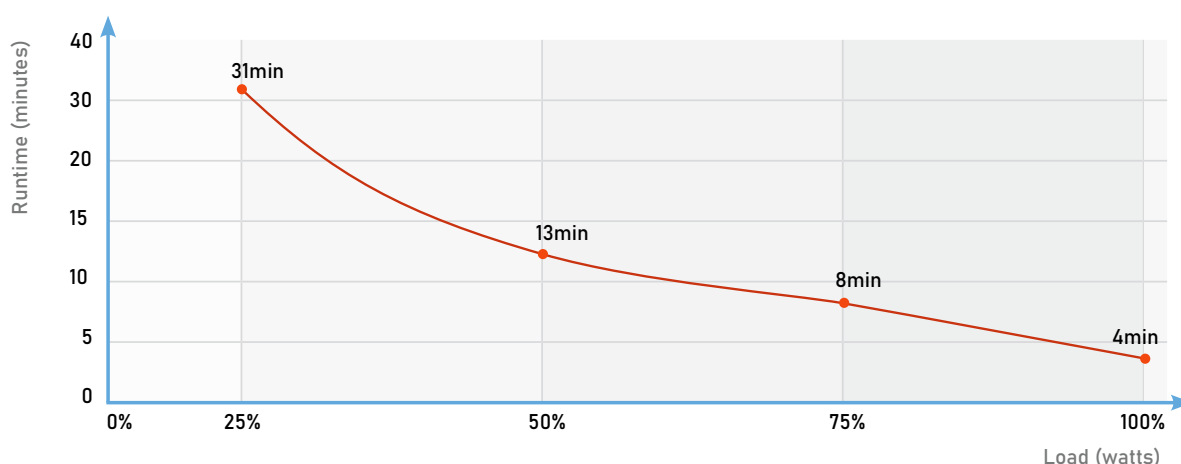
UPS only	https://www.power-software-download.com/viewpower.html
UPS with SNMP card	https://www.power-software-download.com/viewpowerpro.html
Software capability	Monitor & Control over USB, LAN and Internet (SNMP card optional)

Physical

Product dimensions	410 x 438 x 88 mm (2U)
Product weight	14.1 kg



Running time on battery



Logistics

Carton Box Size (LxWxH)	560 x 500 x 180 mm
Pieces in the Carton Box	1
Net & Gross weight / CTN	N.W.: 14.1 kg / G.W.: 16.1 kg



Certificates





Ordering Information

Use combinations of **bold** letters and numbers to create part numbers for ordering.

Range		VA Power		Typology	
AR	Aria	10H	1000 VA	TO	Tower
ED	Edoc	15H	1500 VA	BR	Brick
NE	Neek	20H	2000 VA	1U	Rack (1U)
NK	Nekot	30H	3000 VA	2U	Rack (2U)
NT	Neta	60H	6000 VA	3U	Rack (3U)
NU	Nurag	100H	10000 VA	CO	Rack (2U) / Convertible
OH	OhcePRO				
RD	Redlab				
RS	Resta				
RG	Regnar				
SU	Suroh				
UD	Udac				
▲		▲		▲	
RD	SP	10H	10H	CO	PW
	▼		▼		▼
Single Phase	SP	1000 w	10H	Pure Sine Wave	PW
3 Phase In - 3 Phase Out	33	1500 w	15H	Simulated Sine Wave	SW
3 Phase In - 1 Phase Out	31	2000 w	20H		
		3000 w	30H		
		6000 w	60H		
		10000 w	100H		
Phase		W Power		Output waveform	

Example Part Number	
Description	Part Number
Redlab 1000 Single Phase Rack (2U) / Convertible Pure Sine Wave UPS unit	RDSP10H10HCOPW

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