



Redlab 10000

The absolute protector

Specifications

Capacity	10000 VA / 10000 W
Type	On-line
Input	
Outlets type	Terminal Block Wiring
Nominal Voltage	230V
Accepted Voltage Range	110 ~ 300 VAC at 0~60% Load 140 ~ 300 VAC at 60~80% Load 176 ~ 300 VAC at 80~100% Load
Nominal Frequency	50 Hz / 60 Hz (Auto Sensing)
Frequency Range	46 ~ 54 Hz
Power Factor	≥ 0.99 at nominal voltage (100% load)
Total Harmonic Distortion (THDi)	<4% @100% Load <6% @50% Load
Phase	Single phase with ground
Output	
Outlets type	Terminal Block Wiring
Nominal Voltage	208*/220/230/240 VAC
AC Voltage Regulation	± 1% (Batt. Mode)
Frequency Range** (Synchronized Range)	46~54 Hz at 50 Hz
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz
Current Crest Ratio	3:1 (max.)
Total Harmonic Distortion (THDi)	≤ 1 % THD (Linear Load) ≤ 4 % THD (Non-linear Load)
Waveform (Batt. Mode)	Pure Sinewave
Transfer Time	
AC Mode to Batt. Mode	Zero
Inverter to Bypass	Zero
Efficiency	
AC Mode	≥ 94 % at full charged battery
To Battery Mode	≥ 91 % at full charged battery
ECO Mode	≥ 96 % at full charged battery



True double
conversion



Single phase
high capacity



Rack/Tower
design

- True Double Conversion
- Output Power Factor 1.0
- Output voltage regulation < 1%
- High efficiency up to 94%
- Wide input voltage range (110-300 VAC)
- Higher output crest ratio 3:1
- EPO function
- DSP technology guarantees high performance
- Up to 4 External battery pack
- User-friendly and easy-shift LCD
- Software management

*When output voltage is set to 208V, the power of the UPS is de-rated to 90%.

** Derate capacity to 60% in CVCF mode



Overload

AC Mode	100%~110%: 10min; 110%~130%: 1min; >130% : 1sec
Battery Mode	100%~110%: 30sec; 110%~130%: 10sec; >130% : 1sec

Indicators type

LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions
LED indicators	Bypass, Line, Battery, Fault
Alarm	Battery mode, Low battery, Overload, Fault

Battery

Internal batteries	Not supported
External batteries	12V lead acid, N pcs x 1 string / cabinet, N=16~20
Compatible battery cabinets	Balder 2U Battery pack & Balder 3U battery pack
Charging Current	1.0 - 4.0 A (adjustable)
Charging Voltage	13.65VDC*N; N=16~20 (adjustable, based on battery number per string)
Default Charging Voltage	N=20 (273VDC)
Running time on battery*	
With one 3U Battery Pack (20 x GP09122F batteries, BTVACIUOCTA2FCN01B)	5 min for ~ 5.800W load 10 min for ~ 4.200W load 15 min for ~ 3.100W load



Management

Connection port	RS232 / USB / Intelligent Port
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)

Environment

Humidity	0-95 % RH @ 0-40°C (non-condensing)
Noise level	Less than 55dB @ 1 Meter

Physical

Product dimensions	600 x 438 x 88 [2U]
Product weight	20 kg

Logistics

 Carton Box Size (LxWxH)	700 x 565 x 240 mm
 Pieces in the Carton Box	1 pcs / ctn
 Net & Gross weight / CTN	N.W.: 20 kg / G.W.: 22 kg

Certificates

RoHS 2011/65/EU **CE**



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	30H	30H	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 10000 Single Phase Rack (2U) / Convertible Pure Sine Wave UPS unit	RDSP100H100HCOPW

Redlab 10000

