

UPS BDN ONLINE RACKEABLE 6 KVA

BDN-6000OR

Capacity

6 kVA / 6 kW

INPUT

Input wiring

Single-phase three-wire (1 Φ + N + PE)

Rated voltage

208 / 220 / 230 / 240 Vac

Voltage range

110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)

Rated frequency

50 / 60 Hz (auto-sensing)

Frequency range

40 ~ 70 Hz

Power factor

≥ 0.99

Bypass voltage range

- 40% ~ +15% (settable)

Total harmonic distortion (THDi)

$\leq 5\%$

OUTPUT

Output wiring

Single-phase (L-N)

Rated voltage

208 (PF=0.9) / 220 / 230 / 240 Vac

Voltage regulation

$\pm 1\%$

Frequency

Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode

Waveform

Sinusoidal

Power factor

1

Total harmonic distortion (THDv)

$\leq 1\%$ (linear load); $\leq 4\%$ (non-linear load)

Crest factor

3:1

Overload

102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s

BATTERIES

DC voltage

192 Vdc (192~240 Vdc settable)

Number of battery

16 pcs (16 ~ 20 settable)

Inbuilt battery (standard model)

12 V / 7 Ah \times 16

Charging current

Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional)

Recharge time

Standard model: 90% capacity restored in 8 hours;
Long time model: depend on the capacity of battery

SYSTEM

Efficiency

$\geq 94\%$ at 100% load, max. 94.5% at 60% load, $\geq 98\%$ in ECO mode

Transfer time

0 ms

Protections

Short-circuit, overload, overtemperature, battery low voltage, overvoltage, and fan failure undervoltage

Max. number of parallel connections

4

Communications

RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)

Display

LCD + LED

OTHERS

Operating temperature

0°C ~ 40°C

Storage temperature

-25°C ~ 55°C (without battery)

Relative humidity

0 ~ 95% (non-condensing)

Altitude

≤ 1000 m, derating 1% for each additional 100 m

IP rating

IP 20

Noise level at 1 m

≤ 55 dB

Dimensions

(W \times D \times H) (mm)

440 \times 580 \times 88 (H)

440 \times 660 \times 176 (S)

Packaged dimensions

(W \times D \times H) (mm)

514 \times 696 \times 168 (H)

554 \times 792 \times 418 (S)

Net weight (kg)

12 (H), 58 (S)

Gross weight (kg)

14 (H), 68 (S)



- S means standard model; H means long time model.
- All specifications are subject to change without notice.