

# DETAILED SPECIFICATIONS & TECHNICAL DATA

ENGLISH MEASUREMENT VERSION

## UPS BDN ONLINE RACKEABLE 10 KVA

BDN-10KOR



For more Information please call your BDN distributor

Capacity

10 kVA / 10 kW

### INPUT

Input wiring

Single-phase three-wire (1Φ + 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)

≤ 5%

### OUTPUT

Output wiring

Single-phase (L-N)

Rated voltage

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

Voltage regulation

± 1%

Frequency

Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode

Waveform

Sinusoidal

Power factor

1

Total harmonic distortion (THDv)

≤ 1% (linear load); ≤ 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 / 9 Ah × 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

≥ 94% at 100% load, max. 94.5% at 60% load, ≥ 98% in ECO mode

Transfer time

0 ms

Protections

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

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

≤ 58 dB

Dimensions

440 × 580 × 88 (H)

(W × D × H) (mm)

440 × 660 × 176 (S)

Packaged dimensions

514 × 696 × 168 (H)

(W × D × H) (mm)

554 × 792 × 418 (S)

Net weight (kg)

14 (H), 63 (S)

Gross weight (kg)

16 (H), 73 (S)

● S means standard model; H means long time model.

● All specifications are subject to change without notice.

