

UPS BDN ONLINE TOWER 6 KVA

BDN-6000OT

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 three-wire (1 Φ + N + PE)
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. 95% 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)	191 \times 465 \times 711 (S), 191 \times 465 \times 350 (H)
Packaged dimensions (W \times D \times H) (mm)	310 \times 654 \times 941 (S), 318 \times 595 \times 475 (H)
Net weight (kg)	53 (S), 14.5 (H)
Gross weight (kg)	61 (S), 16 (H)

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

