

SPECIFICATIONS OF BLUEGATE 20kVA & 40kVA HFI ONLINE UPS

| Model | BGE20.0HFi | BGE40.0HFi |
|-------------------------------------|--|---|
| Power Rating | 20kVA / 20kW | 40kVA/40kW |
| INPUT | | |
| Rated voltage | 380 / 400 / 415Vac; Three-phase five-wire (3Φ + N + PE) | |
| Voltage range | 304-478Vac, full load; 228V - 304Vac, load decrease linearly according to the min phase voltage | 304-485Vac (no down grading), 138 -304Vac (linear downgrading between 40%-100% load) |
| Rated frequency | 50 / 60 Hz (auto-sensing) | |
| Frequency range | 40-70Hz | |
| Power factor | ≥ 0.99 | |
| Bypass voltage range | . -40% -+25% (Selectable) | . -60%-+ 20% (settable) |
| Total harmonic distortion (THDi) | <3% (linear load) | ≤ 3% |
| OUTPUT | | |
| Rated voltage | 380 / 400 / 415Vac; Three-phase five-wire (3Φ + N + PE) | |
| Voltage regulation | ±1% (linear load) | ± 1% |
| Frequency | Synchronized with utility in mains mode, 50/60Hz ±0.1% in battery mode | |
| Waveform | Sinusoidal | |
| Power factor | 1 | |
| Total harmonic distortion (THDv) | <1% (full linear load); <3% (full non-linear load according to IEC/EN62040-3) | ≤ 1% (linear load); ≤ 4% (non-linear load) |
| Crest factor | 3:1 | |
| Overload | <110%, 60min; 110%-125%, 10min; 125%-150%, 1min; >150%, 200ms | 105%-110% for 60min, 110%-125% for 10min, 125%-150% for 1min, >150% for 0.2s |
| BATTERIES | | |
| DC voltage | Long time model: ±240VDC (selectable, 32 -40pcs), 20kVa built-in battery ± 240Vdc (40pcs 9Ah/12V) | ±192Vdc (±180 - ± 264Vdc settable); 40kVA built-in battery: ± 240Vdc (80pcs 9Ah/12V) |
| Number of battery | 40pcs (selectable, 32 -40pcs) | 32pcs (30-44pcs settable) |
| Charging current (max.) | 10A Max. | 12A |
| Recharge time | Depends on the capacity of Battery | |
| SYSTEM | | |
| Efficiency | 95% Max. | Max. 96% in online mode, 99% in ECO mode |
| Transfer time | 0 ms | |
| Protections | Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure | |
| Max. number of parallel connections | 4 | |
| Communications | Standard: RS232, RS485, USB, battery cold start; Option: programmable dry contact, SNMP, parallel kit | Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card |
| Display | 5 inches touch screen | |
| OTHERS | | |
| Operating temperature | 0°C - 40°C | |
| Storage temperature | . -40°C -70°C | . - 25°C -55°C (without battery) |
| Relative humidity | 0 - 95% (non-condensing) | |
| Altitude | ≤ 1000m; above 1000m, downgrading 1% for each additional 100m | |
| IP rating | IP20 | |
| Noise level at m | 58dB Max. | 65dB |
| Dimensions (W*D*H) (mm) | 250 * 800 * 700 (S) 250 * 720 * 560 (H) | 360 * 850 * 885 |
| Packaged dimensions (W*D*H) (mm) | 350 * 900 * 862 (S) 350 * 800 * 718 (H) | 450 * 940 * 1055 |
| Net weight (kg) | 145 (S) 33 (H) | 95, 295 (built-in BAT) |
| Gross weight (kg) | 156 (S) 42 (H) | 110, 310 (built-in BAT) |

Note: All specifications are subject to change without prior notifications; Derate Capacity to 90% when the number of batteries is set to 32pcs (for 20kVA) & 30pcs (for 40kVA)