

GX-LFG-1-1-20

ONLINE TRANSFORMER BASE UPS

GX-LFG-1-1-20 online UPS is an on-line double-conversion UPS with output isolation transformer built-in, offering high levels of reliability and performance for all kinds of load, not only IT systems, banking and communications, but also medical service and industrial applications, its perfect reliability and performance make it most popular in some countries with harsh and unstable grid.



FEATURES

- Single / single-phase, three / single-phase models with on-line double conversion technology
- DSP (Digital Signal Processors) technology
- Suitable for all kinds of loads (resistive, inductive and non-linear loads etc)
- High overload capability (up to 150%)
- Bypass dual DSP control design to enhance more reliability
- Supports dual input, hot standby in series
- Redundant & parallelable with advanced parallel current-sharing control technology
- Cold start and mains start function
- High charging capability: 2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable (standard), 14 A / 16 A / 18 A / 20 A / 22 A / 24 A selectable (options)
- Standard configuration with output isolation transformer
- Superior protection (surgers, short-circuit, overvoltages, undervoltages, overcharge, reverse connection protection etc)
- Advanced communications (RS232 and USB ports (standard), SNMP, dry contacts and RS485 (options)
- Other options (parallel kits, input isolation transformer, bypass isolation transformer and harmonic suppressor)

SPECIFICATIONS

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|--------------------------|---|
| MODEL | GX-LFG-1-1-20 |
| Capacity | 20 KVA 16 KW |
| INPUT | |
| Nominal voltage | 380 / 400 / 415 Vac (3φ+N+PE) |
| Voltage Range | 285 ~ 475 Vac |
| Rated frequency | 50 Hz / 60 Hz |
| Frequency range | 40 ~ 70 Hz |
| Frequency tracking range | ± 5% Hz |
| BYPASS | |
| Nominal voltage | 220 / 230 / 240 Vac (1φ+N+PE) |
| Overload capability | Load current < 150% rated current: long time running 150% ≤ load current < 200%: 1 min 200% rated current ≤ load current: 200ms |
| BATTERIES | |
| Battery voltage | 192 Vdc |
| Battery type | VRLA AGM maintenance-free lead based |
| Number of battery | 12 V * 16 pcs |
| Charging voltage | 220 Vdc |
| EOD | 168 Vdc |
| Charging current | Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable) |
| OUTPUT | |
| Nominal voltage | 220 / 230 / 240 Vac (1φ+N+PE) |
| Power factor | 0.8 |

| | |
|------------------------------------|---|
| Waveform | Sinusoidal |
| Rated frequency | 50 Hz / 60 Hz (settable) |
| Frequency precision | Mains mode: track bypass input in the state of synchronization Battery mode: 50 / 60 ± 0.1 Hz |
| Voltage precision | ± 1% |
| Recovery time of transient voltage | < 20 ms |
| Crest factor | 3:1 |
| THDV | ≤ 3% (linear load); ≤ 6% (non-linear load) |
| Overload capability | Load ≤ 105%: long time running ; 105% < load ≤ 125%: transfer to bypass in 10 mins ; 125% < load ≤ 150%: transfer to bypass in 1 min 150% < load ≤ 200%: transfer to bypass in 200 ms 200% < load: transfer to bypass in 100 ms |
| OTHERS | |
| Transfer time | 0 ms |
| Protections | Short-circuit – overload – overvoltage - undervoltage - low battery – over temperature |
| Communications | RS232 / USB (standard); RS485 / SNMP / dry contacts (optional) |
| Operating Temperature | 0 ~ 40°C |
| Storage temperature | -25°C ~ 55°C (without batteries); |
| Relative humidity | 0 ~ 95% (non-condensing) |
| Operating altitude | ≤ 1000 m (derating 1% for each additional 100 m) |
| Noise level | < 60 dB (at 1 m) |
| MTBF | MTBF > 200000 h |
| MTTR | MTTR < 0.5 h |
| IP rating | IP20 |
| Dimensions (W×D×H) (mm) | 400 x 815 x 1100 |
| Packed dimensions (W×D×H) (mm) | 525 x 925 x 1305 |
| Net weight (kg) | 230 |
| Gross weight (kg) | 245 |