

### Product Overview

The GIGANET™ 6-10kVA Lithium-ion online double-conversion UPS is an online double-conversion UPS, ideal for small-scale scenarios. It eliminates grid issues, supports rack-mount installation, and operates at up to 96% efficiency. The compact design and high-power density, along with R-series lithium battery backup, save installation space. It supports automatic start-up and is suitable for unmanned sites. Optional intelligent cards enable comprehensive UPS status monitoring.



4 kinds of LCD can be selected



2U lithium battery pack



3U VRLA battery pack

*Images are for illustration purposes only; the actual product may vary.*

### FEATURES

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|---|
| Under dual conversion mode, efficiency reaches up to 96%, highly efficient and energy-saving.                         |
| In ECO mode, efficiency reaches up to 99%, providing economic and reliable performance.                               |
| Ultra-wide voltage input range, easily copes with harsh electricity environments.                                     |
| Advanced DSP control technology, with self-fault diagnosis and processing capabilities.                               |
| Independent air duct design, ensuring more reliable overall operation.  |
| Long-life lithium iron phosphate battery design, with a service life of up to 10 years, no need to replace batteries. |
| Optimized grid adaptability, perfect compatibility with generators.   |
| Comprehensive warning and protection functions, automatic start-up detection, ensuring equipment safety.              |
| Automatic mains start-up, supports unmanned operation.  |
| Intelligent screen displays parameters, providing clear equipment status.   |
| Compact size, flexible installation, effectively saving installation space.   |
| Digital control, ultra-long endurance, supports low-current discharge.  |
| Support SNMP, RS232, dry contact  |



## POWER SYSTEMS

### Giganet Single Phase 6-10kVA Lithium-ion Online Double Conversion UPS

#### Product Specification

| MODEL                      |                     | GN-UPS-6KVAH-LI-RT   | GN-UPS-10KVAH-LI-RT |
|----------------------------|---------------------|--|---------------------|
| Capacity                   |                     | 6000VA/6000W   | 10000VA/10000W      |
| <b>INPUT</b>               |                     |  |                     |
| Nominal voltage            |                     | 208/220/230(Default)/240Vac  |                     |
| Input voltage range        |                     | 110~300Vac (110~176Vac@50% load/176~300Vac@100% load)  |                     |
| Input frequency range      |                     | 40~70Hz (50/60Hz Auto-Sensing)   |                     |
| Harmonic distortion(THDi)  |                     | < 2%   |                     |
| Power factor               |                     | > 0.99   |                     |
| Input Connection           |                     | HW terminal (L+N+G)  |                     |
| Bypass voltage range       |                     | Max.voltage: 208/220Vac: + 25% (Optional + 10%, + 15%, + 20%)<br>230V: + 20% (Optional + 10%, + 15%) 240V:<br>+ 15% (Optional + 10%)<br>Min.voltage: - 45% (Optional -10%, - 20%, - 30%) |                     |
| <b>OUTPUT</b>              |                     |  |                     |
| Output voltage             |                     | 208/220/230(Default)/240Vac  |                     |
| Voltage regulation         |                     | ±1%  |                     |
| Output connection          | Programmable        | C19*2+C13*3  |                     |
|                            | Non-programmable    | HW terminal (L+N+G)  |                     |
| Power factor               |                     | 1.0  |                     |
| Output frequency           | Online mode         | ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)   |                     |
|                            | Battery mode        | (50/60±0.1%)Hz   |                     |
| Crest factor               |                     | 3:1  |                     |
| Harmonic distortion (THDv) |                     | < 1% Linear load<br>< 3% Non linear load   |                     |
| Transfer time              | AC mode to Bat.mode | 0ms  |                     |
|                            | Inverter to Bypass  | 0ms  |                     |
| Output waveform            |                     | Pure Sinewave  |                     |
| Overload                   | Online mode         | Load≤110%, last 60min; ≤125%, last 10min; ≤150%, last 1min; >150%, turn to bypass mode immediately   |                     |
|                            | Battery mode        | Load≤110%, last 10min; ≤125%, last 1min; ≤150%, last 10 second; >150%, 0.5 second shut down  |                     |
|                            | Bypass mode         | 105%≤load≤130%,only overload alarm; ≤150%, last 10min; ≤200%,last 1min; >200%, 0.5 second shut down  |                     |
| Efficiency                 | Online mode         | Up to 95%  | Up to 95.5%         |
|                            | ECO mode            | Up to 97.5%  | Up to 98%           |
| <b>BATTERY</b>             |                     |  |                     |
| Battery Voltage            | VRLA battery        | 192(Default)/216/240Vdc  |                     |
|                            | Lithium battery     | 192Vdc   |                     |
| Charging current (Max.)    |                     | 12A (15A optional)   | 15A                 |
| Charging current (Max.)    |                     | Charging current adapts to the battery type and battery capacity   |                     |
| <b>INDICATORS</b>          |                     |  |                     |
| LED display                |                     | Online mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault  |                     |
| LCD display                |                     | Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time                                    |                     |
| <b>ALARM</b>               |                     |  |                     |
| Battery mode               |                     | Beeping every 4 seconds  |                     |
| Battery low                |                     | Beeping every second   |                     |
| Overload                   |                     | Beeping twice every second   |                     |
| Fault                      |                     | Continuously beeping   |                     |
| <b>PHYSICAL</b>            |                     |  |                     |
| Dimension WxDxH            |                     | 440×621.5×86.5mm   |                     |
| Net weight                 |                     | 15kg   | 17kg                |
| <b>ENVIRONMENT</b>         |                     |  |                     |
| Operating temperature      |                     | 0°C~40°C   |                     |
| Storage temperature        |                     | -25°C~55°C   |                     |
| Humidity range             |                     | 0 ~ 95%RH @ 0 ~ 40°C (Non condensing)  |                     |
| Altitude                   |                     | < 1000m, derating required when > 1500m  |                     |
| Noise level*               |                     | ≤45dB at 1 Meter   | ≤50dB at 1 Meter    |



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### Giganet Single Phase 6-10kVA Lithium-ion Online Double Conversion UPS

#### STANDARDS

|             |   |
|-------------|---|
| Safety      | CB: IEC 62040-1:2017, CE-LVD: EN 62040-1:2008+A1:2013 |
| EMC         | IEC 62040-2-2016, EN 62040-2-2018 C2                  |
| Performance | IEC/EN 62040-3  |

#### Ordering Information

| Part Number         | Product Description   |
|---------------------|---|
| GN-UPS-6KVAH-LI-RT  | Giganet Single Phase Online Double Conversion Lithium-ion UPS 6kVA Rack Mounted, Internal/External Li-on batteries, SNMP Card with Mounting Rails / Multifunctional Brackets  |
| GN-UPS-10KVAH-LI-RT | Giganet Single Phase Online Double Conversion Lithium-ion UPS 10kVA Rack Mounted, Internal/External Li-on batteries, SNMP Card with Mounting Rails / Multifunctional Brackets |