

Three Phase UPS

PRO 6 Series (400kVA to 1200kVA)



The PRO 6 three-phase modular UPS delivers scalable, reliable, and intelligent power protection for data centers and other critical IT environments. With advanced DSP control and true online double-conversion, it ensures clean, uninterrupted power for high-density loads.

Offering vertical expansion from 400 to 1200kVA per cabinet and up to 4800kVA with parallel cabinets, the PRO 6 series combines high performance with flexibility. Its hot-swappable, plug-and-play modules simplify maintenance and maximise uptime, making it the smart choice for mission-critical operations.

Features of PRO 6 UPS

- Power factor 1.0; input PF >0.99, THDi <3%
- High efficiency up to 97% (97% at 40% load, 96% at 20% load)
- Power range 400 – 1200 kW; high power density 100 kVA / 3U module
- Modular, hot-swappable design; scalable up to 4 units in parallel
- Shared battery pack in parallel operation, reducing battery cost
- Wide input voltage range, strong overload and grid adaptability
- Soft-start technology, generator matching up to 1:1.1
- Frequency conversion: 50Hz ↔ 60Hz modes
- Intelligent hibernation for efficiency at low load
- Flexible battery configuration (30–50 cells); adjustable charger parameters
- Intelligent battery management with charge/discharge control and temperature-compensated float charging
- Cold start and utility self-boot support
- Fault-tolerant fan system (50% load with 1 fan failed; 30% with 2 failed)
- High MTBF, low MTTR, dual DSP control
- Compact footprint: 600 kVA system requires only 1.0 m²
- Integrated PDU system for simplified installation and investment savings
- Front-access maintenance; top/bottom cable entry compatible
- Comprehensive protection, self-diagnostics, and detailed event logs
- Self-aging function for on-site testing
- 7" LCD touch screen with intuitive HMI
- Built-in SNMP, RS485, and dry contacts for monitoring

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400-600kVA



800-1200kVA



Power Module

Bypass Module



Control Module



| | | | | | |
|-----------------------|-----------------|---|-----------------|----------------------------------|---|
| ① Parallel port | ② LED indicator | ③ DRY_IN | ④ DRY_OUT | ⑤ BTG port | ⑥ BCB port |
| ⑦ BCB tripping signal | ⑧ EPO port | ⑨ Switch state port of power distribution cabinet | ⑩ SPD port | ⑪ Environmental temperature port | ⑫ Battery temperature compensation port |
| ⑪ CAN port | ⑫ RS485 port 1 | ⑬ RS485 port 2 | ⑭ Ethernet port | ⑮ USB port | ⑯ LCD screen port |

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Technical Specifications of PRO 6 Series

| Model Number | PRO6-400 | PRO6-500 | PRO6-600 | PRO6-800 | PRO6-1000 | PRO6-1200 |
|--|------------------|--------------------|--|---------------------|--------------------|--------------------|
| Rated Capacity | 400 kVA / 400 kW | 500 kVA / 500 kW | 600 kVA / 600 kW | 800 kVA / 800 kW | 1000 kVA / 1000 kW | 1200 kVA / 1200 kW |
| Number of Power Modules | 4 | 5 | 6 | 8 | 10 | 12 |
| Rated Capacity of Power Module | | | | 100 kVA / 100 kW | | |
| Input | | | | | | |
| Input Wiring | | | | 3Φ + N + PE | | |
| Rated Voltage | | | | 380 / 400 / 415 Vac | | |
| Voltage Range | | | 138 ~ 485 Vac (305 ~ 485 Vac without power derating; 139 ~ 324 Vac with linear derating 35%) | | | |
| Input Frequency | | | | 40 ~ 70 Hz | | |
| Power Factor | | | | ≥ 0.99 | | |
| Current Distortion | | | | < 3% | | |
| Batteries | | | | | | |
| Battery Voltage | | | 480 Vdc (360 ~ 600Vdc selectable) | | | |
| Number of Battery | | | 40 pcs 12 V batteries (30~50 pcs selectable) | | | |
| Output | | | | | | |
| Output Wiring | | | 3Φ + N + PE | | | |
| Rated Voltage | | | 380 / 400 / 415 Vac ±1% | | | |
| Frequency | | | Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode | | | |
| Power Factor | | | 1 | | | |
| Voltage Distortion | | | ≤ 1% (linear load) / ≤ 3% (non-linear load) | | | |
| Crest Factor | | | 3:1 | | | |
| Inverter Overload Capacity | | | 105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms | | | |
| Bypass Overload Capacity | | | Load ≤ 125% for long term; > 150% load for 200 ms | | | |
| System | | | | | | |
| Efficiency | | | 97% | | | |
| Max. number of Parallel Connections | | | 4 units | | | |
| Transfer Time | | | 0 ms | | | |
| Protections | | | Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc. | | | |
| Communications | | | RS485, dry contacts, SNMP | | | |
| Display | | | 7 inches LCD touch screen | | | |
| Others | | | | | | |
| Operating Temperature | | | 0°C ~ 55°C | | | |
| Storage Temperature | | | -40°C ~ +70°C | | | |
| Humidity | | | 0% ~ 95% (non-condensing) | | | |
| Altitude | | | ≤ 1000 m, above 1000 m, derating 1% for each additional 100 m | | | |
| Protection Level | | | IP 20 | | | |
| Cabinet Dimensions (W x D x H) (mm) | | 1000 x 1000 x 2000 | | | 2000 x 1000 x 2000 | |
| UPS Module Dimensions (W x D x H) (mm) | | | 440 x 750 x 130 | | | |
| Cabinet Weight (kg) | | 525 | | | 920 | |
| Power Module Weight (kg) | | | 50 | | | |

* Specifications subject to change(s) without prior notification.