

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 |
| ⑬ CAN port | ⑭ RS485 port 1 | ⑮ RS485 port 2 | ⑯ Ethernet port | ⑰ USB port | ⑱ 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.