

Qilian UM Series Integrated UPS

Product Overview |

Qilian UM series integrated UPS, based on online dual conversion technology, can comprehensively eliminate different types of grid problems, and protect key loads. At the same time, it integrates both the UPS and the power distribution system, which can bear load directly and make power distribution flexible and optional. With all-modular design, the integrated UPS supports 30 to 120 kVA or 25 to 125 kVA smooth expansion of capacity and facilitates maintenance. Compared with traditional UPSs, this UPS has improved availability significantly. The integrated UPS also features high reliability, efficiency, intelligence, and flexibility, and is ideal for scenarios that require middle- or large-sized power supply.



Application Scenarios |

- Enterprises' small and medium-sized DCs
- Equipment rooms for telecom and network switching
- Financial branches, traffic dispatching centers, security systems, etc.

Features and Benefits |

- **High Simplicity**
 - Only one cabinet is used to accommodate the UPS and power distribution system, saving cabinet spaces.
- **Modular Design**
 - With modular design, the power module, bypass module, and control module are hot swappable, support on-demand capacity expansion, and facilitate maintenance.
- **High Reliability**
 - The integrated UPS provides an ultra-wide voltage input range (138 to 485 V) and an ultra-wide input frequency range (40 to 70 Hz) to adapt to poor power grid environment.
- **High Availability**
 - The appearance of the standard server cabinet is designed in consistency with the overall appearance of the equipment room.
 - A 7-inch color touchscreen is used for graphic display, making the UPS easy to operate.
 - The input mode of mains power is flexible and optional, and the number of cells ranges from 30 to 50, which is configurable.



Technical Specifications of Qilian UM Series Integrated UPS

Cabinet Capacity		125 kVA	120 kVA
Module Capacity		25 kVA	30 kVA
Module Quantity		Maximum: 5 + 1	Maximum: 4 + 1
Main input	Input mode	3 phases + N wire + ground wire	
	Input voltage	380 V/400 V/415 V (phase-to-phase voltage)	
	Input frequency	50/60 Hz	
	Input power factor	> 0.99	
	Current harmonic distortion	THDi < 3% (100% linear load)	
	Voltage range	138 to 485 VAC. In the 305 to 485 VAC range, the UPS does not derate, while in the 138 to 305 VAC range, the UPS derates in linear mode.	
	Frequency range	40 to 70 Hz	
Bypass	Bypass voltage	380 V/400 V/415 V (phase-to-phase voltage)	
	Voltage range	Configurable. 220V upper limit: 25% (with +10%, +15%, and +20% optional) 230V upper limit: 20% (with +10% and +15% optional) 240V upper limit: 15% (+10% optional); lower limit: -45% (with -10%, -20%, and -30% optional)	
	Bypass frequency range	50/60 Hz (rated power) ±1, ±3, or ±5 Hz	
Battery	Voltage range	360 to 600 VDC (30 to 50 cells of 12 V batteries, adjustable by even number, 40 cells by default)	
Output	Output power factor	1	
	Rated output voltage	380 V/400 V/415 V (line-to-line voltage)	
	Rated output frequency	50/60 Hz	
	Output voltage harmonic distortion	< 2% (linear load), < 3% (non-linear load)	
	Inverter overload	< 5% (0% - 100% - 0% step load)	
	Dynamic recovery time	< 20 ms (0% - 100% - 0% step load)	
	Output voltage harmonic distortion	< 2% (linear load), < 5% (non-linear load)	
	Inverter overload	110%, switched to bypass after 1 hour; 125%, switched to bypass after 10 minutes; 150%, switched to bypass after 1 minute; > 150%, switched to bypass after 200 ms;	
	System	System efficiency	Normal mode: 95.5% Economic mode: 99%
Protection class		IP20	
Communication interface		RS485, dry contact, SNMP card, EPO	
Operating temperature		0 to 40°C	
Storage temperature		-25°C to 70°C	
Relative humidity		0 to 95% (no condensation)	
Configuration	Input mode	Single MCCB/Dual ATS inputs	
	Input specifications	400 A	
	UPS power distribution	250 A x 3, MCCB	
	IT power distribution	32 A/1P x 48, MCB	
	Power distribution	63 A/3P x 8, 16 A/1P x 3, MCB	
Dimensions	Height x width x depth 2000 mm x 600 mm x 1100 or 1200 mm		



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