



ARIET

ABELLION M3380H

Module 20 kVA

Three-phase modular UPS

Rack/Tower type

Online double conversion



Data centers



Medical facilities



Telecommunications systems



Industrial enterprises



Financial systems



19"
Installation in a 19-inch rack

The three-phase modular UPS features a frame-based design and is suitable for a standard 19-inch rack cabinet.

Three-level architecture and **DSP** digital control ensure stable, pure sine-wave power output over a wide input voltage range.

The system supports **N+X** redundancy, a power factor of **1**, flexible battery configuration, multiple communication interfaces, and intelligent battery management to enhance reliability and extend battery life.



SCENARIOS

Providing uninterruptible power supply for servers, data storage systems and network equipment

Protection of switches, routers, and data transmission equipment

Stable power supply for critical financial systems and transaction platforms

BENEFITS

Online double-conversion with three-level technology provides stable and clean power with low distortion and high efficiency.

N+X redundancy allows the installation of additional modules, ensuring continuous system operation even if one of them fails.

Full DSP control, flexible and reliable digital control of the rectifier, inverter, and battery.

Wide voltage and frequency range, adapts to various voltage fluctuations from the grid or generator.

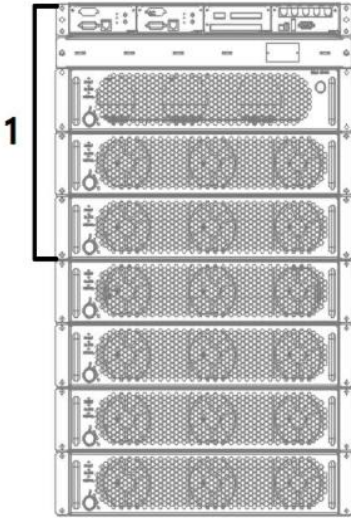
Intelligent battery management monitors battery status and optimizes charging and discharging, preventing overheating and wear, thereby improving reliability and extending battery life.

The 7-inch color touchscreen with an intuitive graphical interface provides convenient monitoring of parameters and easy UPS configuration.

Modular UPS system

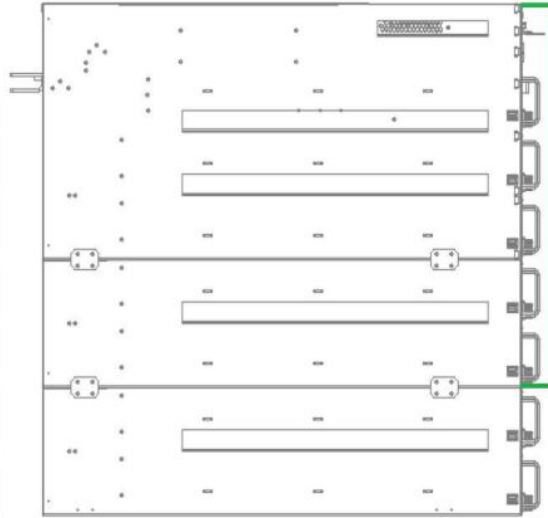
Example with 6 slots

front view



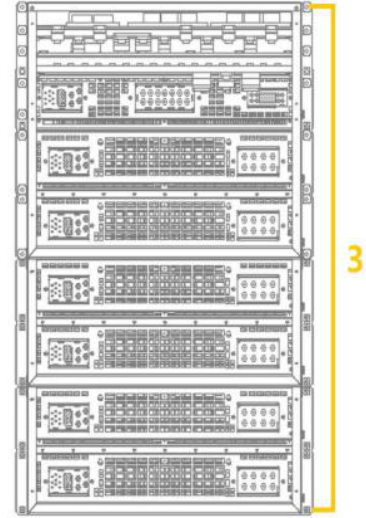
(1) 2 slot cabinet

side view

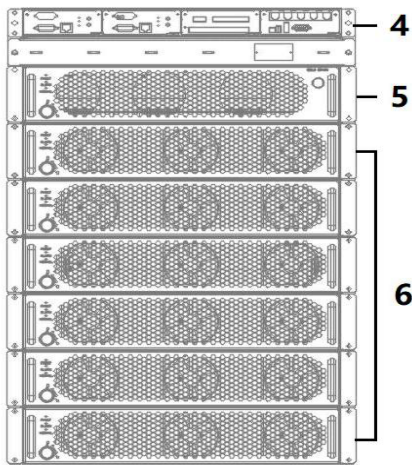


(2) 4 slot cabinet

rear view



(3) 6 slot cabinet



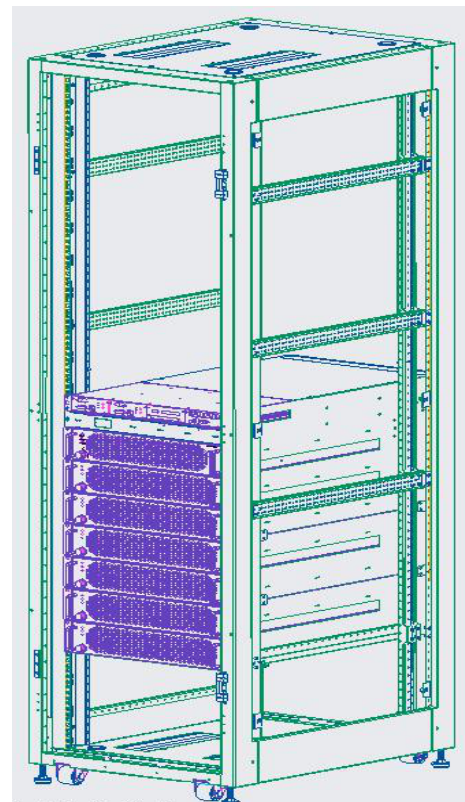
(4) Monitoring module: ECU unit, dry contact unit, monitor unit, communications unit

(5) Bypass module

(6) Power module

front view
(example with 6 slots)

Can be installed in a standard 19-inch server cabinet



Technical specifications

MODEL		M80
Capacity	Frame	80 kVA
	Module	20 kVA
Number of modules		4
Input		
Phase		3 Phase 4 Wires and Ground
Nominal voltage		380/400/415 V _{AC}
Voltage range		138–485 V _{AC} At 40°C: The UPS operates at full load at 323–485 V _{AC} and operates at reduced power at 323–138 V _{AC} . At 30°C: The UPS operates at full load at 305–485 V _{AC} and operates at reduced power at 305–138 V _{AC}
Frequency Range		40/70 Hz
Input power factor		≥0,99
THDi		≤3% (full linear load), ≤5% (at 100% nonlinear load)
Bypass voltage range		Max. voltage: 220 V: +25% (optional: +10%, +15%, +20%); 230 V: +20% (optional: +10%, +15%); 240 V: +15% (optional: +10%) Minimum voltage: -45% (optional: -10%, -20%, -30%)
Frequency protection range		±10%
Generator access		Yes
Battery		
Voltage		±180 V / ±192 V / ±204 V / ±216 V / ±228 V / ±240 V / ±252 V / ±264 V / ±276 V / ±288 V / ±300 V DC (30/32/34/36/38/40/42/44/46/48/50 pcs., optional)
Charging Current	UPS Cabinet	Maximum 40 A
	UPS Module	5 A Max.
Output		
Phase		3 Phase 4 Wires and Ground
Nominal voltage		380/400/415 V _{AC}
Power factor		1
Регулировка напряжения		1%
Frequency	Utility Mode	±1% / ±2% / ±4% / ±5% / ±10% of the nominal frequency (optional)
	Battery Mode	50/60 Hz ± 0,1%
Крест-фактор		3:1
THD		≤ 2% linear load, ≤ 4% non-linear load
Efficiency		96%
Overload		≤110%: transfer to bypass after 60 min; ≤125%: transfer to bypass after 10 min; ≤150%: transfer to bypass after 1 min.
Transfer time		Utility → Battery: 0 ms; Utility→ Bypass: 0 ms
Protection		
Alarm		overload, power supply failure, UPS fault, low battery, etc.
Protection		short circuit, overload, overheating, low battery, fan failure
Communication Interface		RS485, dry contact, SNMP card (optional)
Environment		
Operating temperature		0~40°C (work)
Storage temperature		-25°C ~ 55°C (without battery)
Humidity		0–95% (without condensation)
Installation altitude		< 1500 m
Noise level		<70 dB
Physical parameters		
Dimensions (W*D*H) mm	Frame	850×485×827
	Module	620×440×86
Nee Weight (kg)	Frame	75
	Module	19,5
Стандарты		EN62040–1, EN62040–2, EN62040–3