

Professional Series



Green
Power



Environmental
Friendly



Energy
Saving



M+ Qbits Series

Modular True Double Conversion Online UPS



- High Efficiency Online Double Conversion Technology
- Unity Output Power Factor - 1.0
- Parallel up to 10 Power Module
- N + X Parallel Redundancy
- Modular Connector Box with Hot-Swappable Design
- 19" Tower/Rack Convertible Design
- Parallel Operation with Common Battery
- DSP Technology Guarantees High Reliability
- Generator Compatible
- ECO Mode Function for Energy Saving
- Emergency Power Off Function (EPO)
- Comes with RS232/USB Port, Smart Slot & Power Management Software



• Software •



• 2 Years •
Warranty

Professional Series



Online Double Conversion Technology

M+ Qbits using online double conversion technology to effectively insulate against network disturbance and enable higher load uptime.

Modular Connector Box with Hot-Swappable Design for Easy installation, Power Expansion and Maintenance

M+ Qbits uses patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing four screws on the connector box, power module can be easily remove from the cabinet without disconnecting any wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.



Standard 19" Tower/Rack Convertible Design

Design for easy adjustment, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. 19" form factor suitable for all standard rack so it optimizes cost expenses to meet the power demands.



Parallel Operation with Common Battery

Compared to general parallel system multiple M+ Qbits UPS able to form a parallel power backup system by sharing common battery packs which reduce the expense.

Model	3/3-10K	3/1-10K	2/2-6K
Max. Parallel Units	10	10	10

Adjustable Battery Design

The number of connected batteries can be adjusted flexibly based on different power demand

DSP Technology Guarantees High Reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

Output Power Factor 1.0

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advance performance.

50Hz/60Hz Frequency Converter Mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipment's.

ECO Mode Operation for Energy Saving

ECO mode improves the efficiency by 97% to cut energy usage & cost. In this mode, loads are supplied from the mains directly. While main fails, the UPS will constantly supply the power to the connected device without any interruption.

Emergency power Off Function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

Generator Compatible

The UPS can accept generator as power source and still convert the perfect power to the connected loads.

Customized System

Multiple M+ Qbits UPSs can easily form a complete system based on customer's demand.



Cabinet Height	17U		
No. of Power Module	4	2	1
No. of Battery Module	0	2	3

* This customized system will be embedded 1U centralized communication unit

*Specification subjects to change without prior notice



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Technical Specification:

MODEL	M+ Qbits 3/3-10K	M+ Qbits 3/1-10K	M+ Qbits 1/1-10K	M+ Qbits 2/2-6K
PHASE	3-Phase in / 3-phase out	3-Phase in / 1-phase out	1-Phase in / 1-phase out	2-Phase in / 2-phase out
CAPACITY	10KVA/ 10,000W	10KVA/ 10,000W	10KVA/ 10,000W	6KVA/ 6,000W
PARALLEL CAPABILITY	10	10	10	10
TOPOLOGY	True Double-Conversion Online			
INPUT				
NOMINAL VOLTAGE	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	208VAC/220VAC/230VAC/240VAC (1Ph+N+PE)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE)
VOLTAGE RANGE	190-5200VAC (3-Phase) @ 50% Load 305-478VAC (3-Phase) @ 100% Load	190-520VAC (3-Phase) @ 50% Load 305-478VAC (3-Phase) @ 100% Load	110-3000VAC (3-Phase) @ 50% Load 176-276VAC (3-Phase) @ 100% Load	88V-155V (L-N) 152-269V (L-L)
FREQUENCY RANGE	40~70Hz			
INPUT POWER FACTOR	≥ 0.99 @ 100% load			
HARMONIC DISTORTION (THDi)	< 4% @ full linear load			
OUTPUT				
OUTPUT VOLTAGE	360VAC/380VAC/400VAC/415VAC (3Ph+N)	208*/220/230/240VAC(L+N)	208*/220/230/240VAC(L+N)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N)
OUTPUT POWER FACTOR	1.0			
AC VOLTAGE REGULATION(Batt.Mode)	± 1%			
FREQUENCY RANGE (Synchronized Range)	46~54Hz or 56~64Hz			
FREQUENCY RANGE (Batt.Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
CURRENT CREST RATION	3:1 (max.)			
HARMONIC DISTORTION	≤ 2 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)	≤ 2 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)	≤ 2 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)	≤ 2 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)
TRANSFER TIME	Zero			
WAVEFORM	Pure Sinewave			
EFFICIENCY				
AC Mode	94%	94%	94%	91%
ECO Mode	97%	97%	97%	97%
BATTERY MODE (At Full Load)	91%	91%	91%	90%
BATTERY MODE (Peak)	92%	92%	92%	91.5%
BATTERY CHARGER				
BATTERY VOLTAGE	± 12V / 9 Ah			
BATTERY NUMBERS	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	8pcs (adjustable) x 2
NOMINAL VOLTAGE	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-96V (12V x 16 pcs)
MAXIMUM VOLTAGE	+/-240V (12V x 40 pcs)	+/-240V (12V x 40 pcs)	+/-240V (12V x 40 pcs)	+/-96V (12V x 16pcs)
MINIMUM VOLTAGE	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-96V (12V x 16pcs)
CHARGING VOLTAGE	± 218V	± 218V	± 218V	± 109V
TYPICAL RECHARGING TIME	9 hours recover to 90% capacity			
CHARGING CURRENT	+/- 4A			
STATUS INDICATION				
LED/LCD DISPLAY	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
COMMUNICATION				
POWER MANAGEMENT SOFTWARE	Support Window Family, Linux & MAC			
INTERFACE	RS 232 / USB Port			
SNMP SLOT	Yes			
SURGE PROTECTION	Yes			
PHYSICAL				
OPERATING ENVIRONMENT	0-95 % RH @ 0- 40°C (non-condensing)			
NOISE LEVEL	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
DIMENSION (DxWxH)mm	615 x 418 x 132 [3U]			
WEIGHT (KG)	22	22	22	21.5
WARRANTY				
UPS WARRANTY	2 Years Full Warranty include Parts, Labour & Battery			

*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.

*Specification subjects to change without prior notice

