

## 3-Ph, 20KVA/18KW, 380/400/415, 50/60Hz Industrial grade Smart online UPS with isolation transformer

**Product Description:** Magnizon MU20KTX Series is a smart industrial grade UPS with the most advanced CPLD technology combined with high speed MCU, the sixth generation low consume large power, SCR, IGBT and static switch. Specially design for industrial lifts, elevators, Industrial grade PLC loads, pneumatic control systems, injection molding machines, Furness control systems, Industrial grade plotters and printers, motorized loads, IDC data exchange centers, Hospitals, telecommunication, data center, banks, negotiable securities, traffic, arms, industry, large enterprises and so on.



### Key Features

- ❖ Copper transformer based design with input isolation
- ❖ Intelligent inspect and monitor UPS systems every second
- ❖ The sixth generation IGBT inverter technology along with SCR based AC-DC conversion and static switch

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- ❖ High definition touch screen LCD display and LED indicators, can show directly UPS status and operation, data records in table format, and events records.
- ❖ Adopts knock-down modular design, easy to maintain and save resources much; It is with new advanced turbofan which can release heat well and save energy
- ❖ It also use non-circumfluence controlled circuit, ensure to provide clear energy for industrial loads; Its advanced digital circuit technology let whole UPS with 60% more life than others
- ❖ Excellent load characteristics can fulfill with suddenly change load from 0 to 100%, and no need to invert to bypass, ensure output stable and reliable
- ❖ Well-equipped protection function, including alarm function and excellent input and output under voltage overflow protection, input surge protection, phase failure protection, battery overcharge and over discharge protection, output overload short circuit protection, over heat protection and so on.
- ❖ Three phase can equal stable voltage and control separately, in order to control instantaneous overload degree of equal, realize output imbalance of 100% load
- ❖ Optional input harmonic filter or Twelve-pulse rectifier can restrain input harmonic pollution efficiently, improve UPS input power factor, and minimizes input harmonic current significantly
- ❖ Optional battery inspection module, can test specification of every battery, and show on display. If battery faulty, will alarm immediately and inform administrators.
- ❖ Special set: can set UPS work status according to requirements of electric. User can choose from UPS operate mode, ECO save energy operate mode and EPS operate mode.

## Applications

- Lifts and elevators
- Larger printers and plotter
- Hospitals/ECG/MRI scanners etc
- Sub-station control system applications
- Pneumatic and injection molding machines
- Industrial furnaces control unit
- Banking, security and IDC applications
- Desktops, servers & storage applications

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### Specifications

MODEL	MU20KTX
Capacity	20KVA/18KW
INPUT	
Input wiring	Three-phase five-wire (3Φ + N + PE)
Rated voltage	380 / 400 / 415 Vac
Voltage range	± 25%
Rated frequency	50 / 60 Hz
Frequency range	50 / 60 Hz ± 5 Hz
Power factor	≥ 0.95 (with filter)
Bypass voltage range	± 20% (settable)
Delayed start of rectifier	1 ~ 300 s (settable via display panel)
ECO voltage range	± 10% (settable)
OUTPUT	
Output wiring	Three-phase five-wire (3Φ + N + PE)
Rated voltage	380 / 400 / 415 Vac
Output voltage regulation	± 1%
Output frequency regulation	50 / 60 Hz ± 0.1% in battery mode
Waveform	Sinusoidal
Power factor	0.9
Voltage distortion (THDv)	≤ 1% (linear load), ≤ 5% (non-linear load)
Crest factor	3:01
Transfer time	AC mode to battery mode: 0 ms
	Inverter mode to bypass mode: 0 ms
	Inverter mode to ECO mode: 5 ~ 10 ms
Overload	105%: long time running, 105% ~ 110% for 1h,
	110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 200% for 100 ms
Efficiency	93%
BYPASS	
Rated voltage	380/400/415Vac, (3Ph + N + PE)
Rated Frequency	50/60Hz
Voltage protection range	Upper limit: +20% (+10%, +15%, +20% adjustable)
	Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)
Frequency protection range	±10% (±2.5%, ±5%, ±10%, ±20% adjustable)
BATTERY	
DC Voltage	12 V × configured battery number (settable via display panel)
Number of batteries	32 pcs
Charging current	10 A default / Settable
DC Nominal Bus voltage	384V DC
Charging	Three-stage charging, auto switch floating / equalizing charge
Type of Batteries	VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Ion (Settable)
Battery self-test	Settable periodic self-test; manually configurable test time and voltage
SYSTEM FEATURES	

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Transfer time	0 ms (Line mode→ Battery mode)
Overload	Load≤110%/60min; ≤125%/10mins; ≤150%/1 min, to Bypass
LED display	Input, Inverter, Bypass, Battery, Output, Status
LCD display	I/O voltage, Frequency, power, power Factor, battery voltage, current, battery status, load percentage, UPS status, history record
Communication interface	RS232, RS485, EPO, Dry contact (Optional), SNMP card (Optional)
Optional	Harmonic Filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor
<b>ENVIRONMENTAL</b>	
Operating temperature	0~50°C
Storage temperature	-25~55°C
Humidity range	0~95% (Non-condensing)
Ip Rating	IP21
Altitude	<1500m
Noise level	<58dB
Dimension W×D×H (mm)	350×650×1050
Net weight (kg)	165
Shipping weight (kg)	180
<b>STANDARDS</b>	
Safety	IEC/EN 62040-1; IEC 62477-1
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)
Performance	IEC/EN 62040-3
Quality	ISO9001:2015, ISO14001:2015, CE
Warranty:	2Years