

3-Ph, 60KVA, 380/400/415, 50/60Hz Industrial Grade Smart Online UPS with Isolation Transformer

Product Description Magnizon MU60KT 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, telecommunication, data center, banks, negotiable securities, traffic, arms, industry, large enterprises and so on.



Key Features

- ❖ Smart Online double-conversion UPS technology with full DSP control
- ❖ The sixth generation IGBT inverter technology
- ❖ Pure copper transformer based 6pulse/12pulse full bridge SCR rectifier technology and static switch
- ❖ N+X configuration with parallel ready function suitable for paralleling upto 6nos

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- ❖ 100% Unbalanced load suitable for pure inductive/capacitive/resistive loads (suitable for all kinds of Industrial applications)
- ❖ High definition 5.7 inches LCD, friendly human & machine interface touch screen LCD display and LED indicators, can show directly UPS status and operation, data records in table format, and events records.
- ❖ Front access makes maintenance and replacement/service simplified
- ❖ High MTBF (>200,000H) and Low MTTR (<30min)
- ❖ 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

- Industrial Lifts and elevators
- Larger printers and plotter
- Sub-station control system applications
- Power generation, transmission and distribution
- Cement/steel/manufacturing industries
- Pneumatic and injection molding machines
- Industrial furnaces control unit
- Banking, security and IDC applications
- Desktops, servers & storage applications

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Specifications

MODEL	MU60KT
Capacity (KVA)	60KVA
Capacity (KW)	54KW
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	3:1
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
BATTERIES	
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	
Efficiency	In line mode: Max. 94%; ECO mode: ≥ 98%

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Max. number of parallel connections	6 units (6x60KVA=360KVA)
Protections	Short-circuit, overload, overvoltage, under voltage, low battery, over temperature, fan failure
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)
EMI	EN62040-2
EMS	IEC61000-4-2(ESD)
	IEC61000-4-3(RS)
	IEC61000-4-4(EFT)
	IEC61000-4-5(surge)
Quality Standards	ISO9001:2015, ISO14001:2015, RoHs, CE
OTHERS	
Operating temperature	0 ~ 50°C
Storage temperature	-25°C ~ 55°C (without batteries)
Relative humidity	0 ~ 95% (non-condensing)
Altitude	≤2000 m (de-rating 1% for each additional 100 m)
IP rating	IP 20
Noise level at 1 m	60 dB
Dimensions (W×D×H) (mm)	600 × 700 × 1500
Packaged dimensions (W × D × H) (mm)	700 × 800 × 1650
Net weight (kg)	460
Gross weight (kg)	480