

## Model # MU20KT series

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

**Product Description** Magnizon MU20KT 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

- ❖ Intelligent inspect and monitor UPS systems every second
- ❖ The sixth generation IGBT inverter technology along with SCR based AC-DC conversion and static switch
- ❖ High definition touch screen LCD display and LED indicators, can show directly UPS status and operation, data records in table format, and events records.

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- ❖ 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
- Sub-station control system applications
- Pneumatic and injection molding machines
- Industrial furnaces control unit
- Banking, security and IDC applications
- Desktops, servers & storage applications

### Specifications

Model	MU20KT
Capacity (VA)	20KVA
Nominal output capacity	16KW
Operate type	Double conversion low frequency online type

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<b>Input</b>	<b>voltage</b>	220V/380, 230/400, 240/415V, $\pm 25\%$
	<b>Phase</b>	Three phase +N+G
	<b>Frequency</b>	50Hz/60Hz $\pm 5\%$
	<b>Input power factor</b>	0.95(with input filter)
	<b>Isolation</b>	Yes. Through pure copper isolation transformer
	<b>Soft start</b>	0-100% 5sec
<b>Output</b>	<b>Voltage</b>	220V/380, 230/400, 240/415V, $\pm 1\%$ (stable load), $\pm 5\%$ (active load)
	<b>Phase</b>	Three phase +N+G
	<b>Frequency</b>	50/60Hz ( $1\pm 5\%$ , AC mode), 50/60Hz ( $\pm 1\%$ , Battery mode)
	<b>Power factor</b>	0.8
	<b>Output wave</b>	Pure sine wave
	<b>Distortion</b>	Linear load $< 3\%$ , non linear load $< 5\%$
<b>Battery voltage</b>	<b>Standard battery voltage</b>	360V/384V
	<b>Floating charge</b>	405V/432V
	<b>Terminal voltage</b>	315V/336V
	<b>Charge current</b>	1A-50A (Can calculate and set according to battery configuration software)
	<b>Maximum discharge current</b>	56Amp
<b>Main Function</b>	<b>Active voltage change</b>	0-100% $\pm 5\%$
	<b>Instant recover time</b>	$< 10\text{ms}$
	<b>Imbalance voltage</b>	$< \pm 5\%$ , $< \pm 1\%$ ( Balance load voltage)
	<b>Overload capacity</b>	125% $\rightarrow$ 10min, 150% $\rightarrow$ 1min
	<b>Static switch</b>	Automatic
	<b>Protection</b>	UPS over current, short circuit, battery low voltage, over heat, phase failure
	<b>Cold method</b>	Yes
	<b>Noise</b>	60-65dB
	<b>Display</b>	LED、LCD display
	<b>Communication port(Optional)</b>	RS232, SNMP, dry-contact
	<b>Alarm</b>	Alarm with buzzer and indicators
	<b>Environment</b>	Temperature: 0-50C Humidity: 0-90%
<b>Net weight</b>	<b>kgs</b>	350
<b>Size</b>	<b>L*W*H (mm)</b>	800 $\times$ 600 $\times$ 1200