

3-Ph, 120KVA/108KW, 380/400/415, 50/60Hz Industrial grade Smart online UPS with isolation transformer

Product Description. Magnizon MU120KTX 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
- 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



Specifications

| Capacity 120KVA/108KW NPUT | MODEL | MU120KTX |
|--|---------------------------------------|---|
| Input wiring | | |
| Input wiring Three-phase five-wire (3Φ + N + PE) | | 120KVA/ 108KW |
| Rated voltage | | Throughoso five wire (20 + N + DE) |
| Voltage range | · · · · · · · · · · · · · · · · · · · | |
| Rated frequency | | |
| Frequency range Power factor Po | | |
| Power factor ≥ 0.95 (with filter) Bypass voltage range ± 20% (settable) Delayed start of rectifier ECO voltage range ± 10% (settable) OUTPUT Output Wiring Three-phase five-wire (3Φ + N + PE) Rated voltage regulation ± 1% 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 AC mode to battery mode: 0 ms Inverter mode to ECO mode: 5 ~ 10 ms Inverter mode to ECO mode: 5 ~ 10 ms Inverter mode to ECO mode: 5 ~ 10 ms 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms Efficiency 94% BYPASS Rated voltage 380/400/415Vac, (3Ph + N + PE) Rated requency Coltage Upper limit: + 20% (+ 10%, + 15%, + 20% adjustable) Lower limit: − 40% (− 10%, − 20%, − 30%, − 40% adjustable) EATHERY CVeltage 12 V × configured battery number (settable via display panel) Number of batteries 12 A default / Settable Charging Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, Op2V tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage | | |
| Bypass voltage range | | |
| Delayed start of rectifier Delayed start of rectifier ECO voltage range ± 10% (settable) OUTPUT Output wiring Three-phase five-wire (30 + N + PE) Rated voltage 380 / 400 / 415 Vac Output voltage regulation ± 1% Output frequency regulation Waveform Sinusoidal Power factor O.9 Voltage distortion (THDv) Crest factor Transfer time Inverter mode to bypass mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to ECO mode: 5 ~ 10 ms Inverter mode to ECO mode: 5 ~ 10 ms 105%: long time running, 105% ~ 110% for 1h, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 Fifciency BYPASS Rated voltage Rated requency Voltage protection range Upper limit: +20% (+10%, +15%, +20% adjustable) Lower limit: -40% (−10%, −20%, −30%, −40% adjustable) Erequency protection range ±10% (±2.5%, ±5%,±10%, ±20% adjustable) BATTERY DC Voltage Charging Union to the start of time and voltage VRLA, SMF, Deep Cycle GEL, Opz V tubular batteries, Nickel Cadmium, Lithium In (Setable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SVSTEM FEATURES | | |
| ### \$\frac{\text{totale}}{\text{output}}\$ Output wiring | | |
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| 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 AC mode to battery mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to ECO mode: 5 ~ 10 ms 105%: long time running, 105% ~ 110% for 1h, Overload 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms Efficiency 94% BVPASS 8ated Voltage 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 Three-stage charging, auto switch floating / equalizing charge Type of Batteries V | | 2 20% (000000) |
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| Voltage distortion (THDv) S 1% (linear load), ≤ 5% (non-linear load) Crest factor 3:01 AC mode to battery mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to ECO mode: 5 ~ 10 ms 105%: long time running, 105% ~ 110% for 1h, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms Efficiency BYPASS Rated voltage Rated Voltage Rated Frequency Voltage protection range Upper limit: +20% (+10%, +15%, +20% adjustable) Lower limit: -40% (-10%, -20%, -30%, -40% adjustable) Frequency protection range BATTERY DC Voltage 12 V × configured battery number (settable via display panel) Number of batteries Charging current DC Nominal Bus voltage Type of Batteries VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Idea (Settable) Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | | |
| Transfer time AC mode to battery mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to ECO mode: 5 ~ 10 ms 105%: long time running, 105% ~ 110% for 1h, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms Efficiency BYPASS Rated voltage Rated Frequency Voltage protection range Upper limit: +20% (+10%, +15%, +20% adjustable) Lower limit: -40% (-10%, -20%, -30%, -40% adjustable) Frequency protection range BATTERY DC Voltage 12 V × configured battery number (settable via display panel) Number of batteries Charging current DC Nominal Bus voltage Type of Batteries Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | | |
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| Inverter mode to ECO mode: 5 ~ 10 ms 105%: long time running, 105% ~ 110% for 1h, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms Efficiency 94% BYPASS Rated voltage 380/400/415Vac, (3Ph+N+PE) Rated Frequency 50/60Hz Voltage protection range Upper limit: +20% (+10%, +15%, +20% adjustable) Frequency protection range ±10% (±2.5%, ±5%,±10%, ±20% adjustable) Frequency protection range 12 V × configured battery number (settable via display panel) Number of batteries 32 pcs Charging current 10 A default / Settable DC Nominal Bus voltage 12 V × configured battery number (settable via display panel) Type of Batteries 384V DC Charging Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage | | AC mode to battery mode: 0 ms |
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| 105%: long time running, 105% ~ 110% for 1h, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms 94% | | Inverter mode to ECO mode: 5 ~ 10 ms |
| Overload 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 20 for 100 ms Efficiency 94% BYPASS Rated voltage Rated Frequency Sol/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 Type of Batteries VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | | |
| Efficiency BYPASS Rated voltage Rated Frequency 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 Charging current 10 A default / Settable DC Nominal Bus voltage Three-stage charging, auto switch floating / equalizing charge Type of Batteries Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Overload | 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 200% |
| Rated voltage Rated Voltage Rated Frequency 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 Three-stage charging, auto switch floating / equalizing charge Type of Batteries VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Efficiency | 94% |
| Rated Frequency 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 Three-stage charging, auto switch floating / equalizing charge Type of Batteries VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | BYPASS | |
| Rated Frequency 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 Three-stage charging, auto switch floating / equalizing charge Type of Batteries VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Rated voltage | 380/400/415Vac, (3Ph+N+PE) |
| 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 Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Rated Frequency | 50/60Hz |
| ### 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 Id (Settable) Battery self-test ### Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Voltage protection range | Upper limit: +20% (+10%, +15%, +20% adjustable) |
| 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 Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | | Lower limit: -40% (-10%, -20%, -30%, -40% adjustable) |
| DC Voltage Number of batteries Charging current DC Nominal Bus voltage Charging Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Frequency protection range | ±10% (±2.5%, ±5%,±10%, ±20% adjustable) |
| Number of batteries Charging current DC Nominal Bus voltage Charging Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | BATTERY | |
| Charging current DC Nominal Bus voltage Charging Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | DC Voltage | |
| DC Nominal Bus voltage Charging Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Number of batteries | |
| Three-stage charging, auto switch floating / equalizing charge VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Charging current | |
| Type of Batteries VRLA, SMF, Deep Cycle GEL, OpZv tubular batteries, Nickel Cadmium, Lithium Id (Settable) Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | DC Nominal Bus voltage | |
| Battery self-test Settable periodic self-test; manually configurable test time and voltage SYSTEM FEATURES | Charging | |
| SYSTEM FEATURES | 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 |
| Transfer time O ms (Line mode -> Rattery mode) | SYSTEM FEATURES | |
| Transfer anno | Transfer time | 0 ms (Line mode→ Battery mode) |



| LED display | Overload | Load≤110%/60min; ≤125%/10mins; ≤150%/1 min, to Bypass |
|--|-------------------------|---|
| Status, load percentage, UPS status, history record | LED display | Input, Inverter, Bypass, Battery, Output, Status |
| Digitional Harmonic Filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor | LCD display | |
| Current-sharing inductor | Communication interface | RS232, RS485, EPO, Dry contact (Optional), SNMP card (Optional) |
| Operating temperature 0~50°C Storage temperature -25~55°C Humidity range 0~95% (Non-condensing) IP Rating IP21 Altitude <1500m | Optional | |
| Storage temperature | ENVIRONMENTAL | |
| Humidity range 0 ~95% (Non-condensing) IP Rating IP21 Altitude <1500m Noise level <68dB PHYSICAL Dimension W×D×H (mm) 890×790×1600 (6P) 1515×830×1600 (12P) Net weight (kg) 693 (6P)/ Shipping weight (kg) 738 (6P)/ Shipping weight (kg) 738 (6P)/ STANDARDS Safety IEC/EN 62040-1; IEC 62477-1 EMC IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, 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 | Operating temperature | 0~50°C |
| IP Rating | Storage temperature | -25∼55°C |
| Altitude < <1500m Noise level | Humidity range | 0∼95% (Non-condensing) |
| Noise level < | IP Rating | IP21 |
| PHYSICAL Dimension W×D×H (mm) 890×790×1600 (6P) 1515×830×1600 (12P) Net weight (kg) 693 (6P)/ Shipping weight (kg) 738 (6P)/ STANDARDS 1520 (12P) 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 | Altitude | <1500m |
| Dimension W×D×H (mm) 890×790×1600 (6P) 1515×830×1600 (12P) Net weight (kg) 693 (6P)/ Shipping weight (kg) 738 (6P)/ STANDARDS 1520 (12P) 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 | Noise level | <68dB |
| 1515×830×1600 (12P) Net weight (kg) 693 (6P)/ 1450 (12P) Shipping weight (kg) 738 (6P)/ 1520 (12P) STANDARDS Safety IEC/EN 62040-1; IEC 62477-1 EMC IEC/EN 62040-2 (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 IEC/EN 62040-3 IEC/EN 62040-3 IEC/EN 62040-3 IEC/EN 62040-15, IEC 61000-12015, IE | PHYSICAL | |
| Net weight (kg) 693 (6P)/ 1450 (12P) Shipping weight (kg) 738 (6P)/ 1520 (12P) STANDARDS 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 61000-4-8, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2) Performance IEC/EN 62040-3 Quality ISO9001:2015, ISO14001:2015, CE | Dimension W×D×H (mm) | 890×790×1600 (6P) |
| 1450 (12P) Shipping weight (kg) 738 (6P)/ 1520 (12P) STANDARDS Safety IEC/EN 62040-1; IEC 62477-1 EMC IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, 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 | | 1515×830×1600 (12P) |
| Shipping weight (kg) 738 (6P)/ 1520 (12P) STANDARDS 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 | Net weight (kg) | 693 (6P)/ |
| ### Total Control Cont | | 1450 (12P) |
| STANDARDS 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 61000-4-8, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2) Performance IEC/EN 62040-3 Quality ISO9001:2015, ISO14001:2015, CE | Shipping weight (kg) | 738 (6P)/ |
| 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 61000-4-8, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2) Performance IEC/EN 62040-3 Quality ISO9001:2015, ISO14001:2015, CE | . // (5) | 1520 (12P) |
| 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 | STANDARDS | |
| EMIC 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 | Safety | IEC/EN 62040-1; I <mark>EC 62477-1</mark> |
| Quality ISO9001:2015, ISO14001:2015, CE | EMC | |
| | Performance | IEC/EN 62040-3 |
| Warranty: 2Years | Quality | ISO9001:2015, ISO14001:2015, CE |
| | Warranty: | 2Years |

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