

True On-line Double Conversion Modular UPS

Three Phase Input / Three Phase Output True On-line UPS

- True on-line double conversion technology
- Full DSP control
- IGBT inverter & output isolation transformer
- 3-phase UPS allow 100% unbalance load
- Full static transfer switch
- Zero time transfer switch
- Emergency Power Off function (EPO)
- N+x parallel redundancy up to 6 units
- LED indicator and large LCD display
- Intelligent battery management
Intelligent control and monitoring system
- Built-in battery cold start unit
- Economy mode & Online mode
- RS-232 and RS-485 ports
- SNMP/HTTP monitor capability and dry contact (option)
- Product from ISO 9001 and ISO 14001 certified factory

Applications

- Internet service provider
- Computer data center
- Industrial automation
- Bank or security system
- Telecommunication system
- Transportation system
- Mission-critical equipments



| MODEL | | KTT-103 | KTT-203 | KTT-303 | KTT-403 | KTT-603 | KTT-803 | KTT-104 | KTT-124 | KTT-164 |
|-------------------------|--|---|---------|---------|---------------|----------|---------------|---------|---------------|---------|
| CAPACITY | VA | 10 kVA | 20 kVA | 30 kVA | 40 kVA | 60 kVA | 80 kVA | 100kVA | 120kVA | 160kVA |
| | Watt | 9 kW | 18 kW | 27 kW | 36 kW | 54 kW | 72 kW | 90 kW | 108 kW | 144 kW |
| MAIN INPUT | Voltage | (380 / 400 / 415 Vac) : 380 Vac (L-L) -25% , +20% | | | | | | | | |
| | Frequency | 50 / 60 Hz ± 5 Hz auto sensing | | | | | | | | |
| | Phase | Three phase four wires | | | | | | | | |
| | Power factor | ≥ 0.97 | | | | | | | | |
| BYPASS INPUT | Voltage | Upper limit: 380 Vac (L-L) +10%, +15%, +20% (can be set) | | | | | | | | |
| | | Lower limit: 380 Vac (L-L) -10%, -20%, -30%, -40% (can be set) | | | | | | | | |
| OUTPUT | Voltage | (380 / 400 / 415 Vac) : 380 Vac (L-L) ±1% | | | | | | | | |
| | Power factor | 0.9 | | | | | | | | |
| | Frequency (battery mode) | 50 Hz ± 0.05% | | | | | | | | |
| | Total harmonic distortion | THDv < 2% at linear load | | | | | | | | |
| | Overload capability | 110% transfer to bypass after 1 hour, 125% transfer to bypass after 10 minutes, 150% transfer to bypass after 1 minute and > 150% transfer to bypass after 200 ms | | | | | | | | |
| | Crest factor ratio | 3 : 1 | | | | | | | | |
| EFFICIENCY | AC to AC | 88% | 89% | 90% | 90.5% | 92% | 92.5% | | | |
| BATTERY | Type | sealed lead acid (maintenance free) rechargeable | | | | | | | | |
| | Nominal voltage | 384 Vdc (360 - 384 Vdc) | | | | | | | | |
| STANDARD | EMI attenuation | IEC 62040-2 | | | | | | | | |
| | EMC | IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge) | | | | | | | | |
| | Industrial standard | EN/IEC 62040-2, EN/IEC 62040-3, EN/IEC 62040-1-1 | | | | | | | | |
| | Enclosure protection | IP20 | | | | | | | | |
| INDICATOR | Front panel LED | Input, Inverter, Bypass, Battery, Output status | | | | | | | | |
| | Front panel LCD's | Input & output voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record | | | | | | | | |
| AUDIBLE ALARM | Buzzer | yes | | | | | | | | |
| COMMUNICATION INTERFACE | Standard interface | RS-232 ,RS-485 and EPO | | | | | | | | |
| | SNMP/HTTP capability | option | | | | | | | | |
| | Dry contact | option | | | | | | | | |
| SOFTWARE | UPS monitoring and management software | yes | | | | | | | | |
| ACOUSTIC NOISE | At 1 metre | < 58 dBA | | | | < 68 dBA | | | | |
| ENVIRONMENT | Temperature | 0 - 40°C | | | | | | | | |
| | Relative humidity | 0 - 95% (non-condensing) | | | | | | | | |
| DIMENSIONS | W x H x D (approx. in cm.) | 35 x 105 x 65 | | | 43 x 110 x 83 | | 72 x 140 x 69 | | 89 x 160 x 79 | |
| WEIGHT | Approximate in kg. | 145 | 165 | 204 | 255 | 320 | 450 | 556 | 693 | 780 |

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

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