

KTT-series

True Online Double Conversion UPS

High Power Quality

- Wide input adaptability
- Input power factor $\geq 0.97^*$
- Output power factor up to 0.9
- Low input Total Harmonic Distortion (THDv) ensure high-quality, clean output
- Power walk-in prevents generator overload

Smart Monitoring and Management

- LED indicator and large touchscreen LCD
- RS-232 and RS-485 with Modbus support
- Optional SNMP/HTTP for network management
- Optional dry contact for extended alarms

Smart Battery Management

- Intelligent battery management
- Real-time backup time prediction
- Automatic periodic battery self-test
- Flexible battery configuration options

Comprehensive Protection

- Full startup self-diagnosis
- Multi-protection: over voltage, overload, short-circuit, over temperature, fan failure, etc.
- Built-in emergency power off (EPO) button

High Reliability

- True on-line double conversion technology for stable and clean power
- Double DSP controller for more stable and reliable
- N+X parallel redundant design up to 6 units
- Non-fixed Master/Slave for flexible operation in parallel system
- Generator compatibility
- LBS (Load Bus Synchronization) compatibility even operating in different modes

Applications

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

10kVA – 800 kVA



MASC
ISO 9001 QMS01096/349
ISO 14001 EMS01007/045
ISO 45001 OHSMS0062/1102



NSC TIS TIS 17021
QMS 002 / EMS 005 /
OHSMS 001



TIS 1291 Part 1-2553
TIS 1291 Part 2-2553
TIS 1291 Part 3-2555

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

SPECIFICATIONS

MODEL	KTT-10	KTT-20	KTT-30	KTT-40	KTT-60	KTT-80	KTT-100	KTT-120	KTT-160
Capacity	10 kVA/9 kW	20 kVA/18 kW	30 kVA/27 kW	40kVA/36kW	60 kVA/54 kW	80 kVA/72 kW	100 kVA/90 kW	120kVA/108kW	160kVA/144kW
INPUT									
Operating Voltage Range	380/400/415 Vac (-25%/ + 20%), (3Ph+N+PE)								
Operating Frequency Range	50/60 Hz (±5%)								
Power Factor	≥0.97*								
OUTPUT									
Voltage	380/400/415 Vac (±1%), (3Ph+N+PE)								
Frequency	50/60 Hz (±0.05%)								
Wave Form	Pure Sine Wave								
Power Factor	0.9								
Harmonic Distortion (THDv)	≤ 2% (Linear load)						≤ 1% (Linear load)		
Crest Factor	3:1 (Max)								
Efficiency	Up to 88%	Up to 89%		Up to 90%		Up to 90.5%	Up to 92%		Up to 92.5%
BYPASS									
Rated Voltage	380/400/415 Vac (3Ph + N + PE)								
Rated Frequency	50/60 Hz								
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									
Type	Sealed-lead acid (maintenance-free) (VRLA) rechargeable								
Nominal voltage	384 Vdc (360~384 Vdc)								
Configuration	External battery pack								
SYSTEM FEATURES									
Transfer Time (ms)	Zero time (AC mode to Battery mode)								
Overload	Load ≤110% for 60 min; ≤125% for 10mins; ≤150% for 1 min, turn to Bypass								
Maintenance Bypass Switch	Yes								
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								
INDICATORS									
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								
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								
ENVIRONMENT									
Operating Temperature	0~40°C								
Storage Temperature	-25~55 °C								
Humidity Range	0~95% (Non-condensing)								
Altitude	<1500 m								
Noise Level	<58 dB				<68 dB				
PHYSICAL									
Dimension W×H×D (mm)	350×1050×650			430×1100×830		720×1400×690		890×1600×790	
Net Weight (kg)	145	165	204	255	320	450	556	693	780
Shipping Weight (kg)	160	180	225	280	345	485	591	738	825

*With optional filter

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

Authorized Distributor

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Authorized Dealer:

SPECIFICATIONS

MODEL	KTT-200	KTT-300	KTT-400	KTT-500	KTT-600	KTT-800
Capacity	200 kVA/180 kW	300 kVA/270 kW	400 kVA/360 kW	500 kVA/450 kW	600 kVA/540 kW	800 kVA/720 kW
INPUT						
Operating Voltage Range	380/400/415 Vac (-25%/ + 20%), (3Ph+N+PE)					
Operating Frequency Range	50/60 Hz (±5%)					
Power Factor	≥0.97*					
OUTPUT						
Voltage	380/400/415 Vac (±1%), (3Ph+N+PE)					
Frequency	50/60 Hz (±0.05%)					
Wave Form	Pure Sine Wave					
Power Factor	0.9					
Harmonic Distortion (THDv)	≤ 1% (Linear load)					
Crest Factor	3:1 (Max)					
Efficiency	Up to 92.5%	Up to 93%		Up to 93.5%		Up to 94%
BYPASS						
Rated Voltage	380/400/415 Vac (3Ph + N + PE)					
Rated Frequency	50/60 Hz					
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						
Type	Sealed-lead acid (maintenance-free) (VRLA) rechargeable					
Nominal voltage	384 Vdc (360~384 Vdc)			480 Vdc		600 Vdc
Configuration	External battery pack					
SYSTEM FEATURES						
Transfer Time (ms)	Zero time (AC mode to Battery mode)					
Overload	Load ≤110% for 60 min; ≤125% for 10mins; ≤150% for 1 min, turn to Bypass					
Maintenance Bypass Switch	Yes					
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					
INDICATORS						
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					
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					
ENVIRONMENT						
Operating Temperature	0~40℃					
Storage Temperature	-25~55 ℃					
Humidity Range	0~95% (Non-condensing)					
Altitude	<1500 m					
Noise Level	<72 dB			<75 dB		
PHYSICAL						
Dimension W×D×H (mm)	1200×1600×800	1,400×1,900×1,000		2,580×1,900×1,000	2,800×1,900×1,040	3,280×1,900×1,040
Net Weight (kg)	1,030	1,560	1,640	3,510	3,950	780
Shipping Weight (kg)	1,130	1,690	1,770	3,730	4,250	825

*With optional filter

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