

KTT-H series

True Online Double Conversion UPS

High Power Quality

- Wide input adaptability
- Input power factor ≥ 0.99
- 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 indicators and 7 inch touchscreen LCD
- USB 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

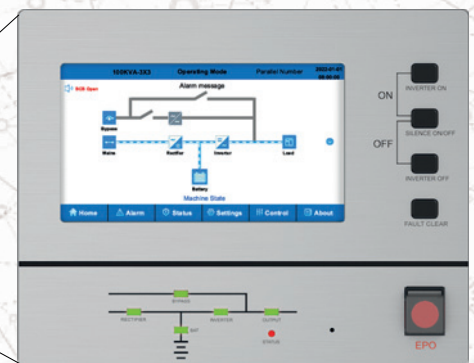
High Reliability

- True on-line double conversion technology for stable and clean power
- IGBT Plus Width Modulator, utilizing advanced IGBT rectification technology
- Double DSP controller for more stable and reliable
- N+X parallel redundant design up to 6 units, two sets of UPSs parallel current sharing less than 3%
- Manual maintenance bypass design
- Generator compatibility

Applications

- Internet service providers
- Computer data centers
- Industrial automation
- Bank or security systems
- Telecommunication system
- Transportation systems
- Mission-critical equipments

10kVA – 160 kVA



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

KTT-H series Three Phase Input / Three Phase Output True On-line UPS

SPECIFICATIONS

MODEL	KTT-10H	KTT-20H	KTT-30H	KTT-40H	KTT-60H	KTT-80H	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 (346 ~ 456 Vac), (3Ph+PE, without N)								
Operating Frequency Range	50/60 Hz (45 ~ 65Hz)								
Power Factor	≥0.99								
Harmonic Distortion (THDi)	THDi ≤ 3%								
Power Walk-in	0 ~ 200 s (Settable)								
OUTPUT									
Voltage	380/400/415 Vac (±1%), (3Ph+N+PE)								
Voltage Regulation	≤ 1%								
Frequency	50/60 Hz (±0.05%)								
Frequency Tracking Speed	0.5 ~ 2 Hz/s settable, 2 Hz/s when paralleling								
Wave Form	Pure Sine Wave								
Power Factor	0.9								
Harmonic Distortion (THDv)	≤ 2% (Linear load)						≤1% (Linear load)		
Crest Factor	3:1 (Max)								
Maximum 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 ±2 (0.5, 1, 2, 3 Settable)								
Bypass Transfer Time	Zero time (Inverter and bypass mode in synchronization) < 15 ms (Inverter and bypass out of synchronization)								
ECO Mode	Support								
BATTERY									
Type	Sealed-lead acid (maintenance-free) (VRLA) rechargeable								
Nominal voltage	600 Vdc								
Configuration	External battery pack								
SYSTEM FEATURES									
Transfer Time (ms)	Zero time (AC mode to Battery mode)								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min.								
Manual Maintenance Bypass	Yes								
Communication Interface	USB, RS485, EPO, Dry contact (Optional), SNMP card (Optional)								
Optional	SNMP adapter, battery temperature sensor, bypass current-sharing inductor								
INDICATORS									
LED Display	Rectifier, Inverter, Bypass, Battery, Output, Status								
LCD Display	Input (voltage, frequency, power factor), Bypass (voltage, frequency), Output (voltage, current frequency), Load (kVA, kW, kVAR, %), Parallel (kVA, kW, kVAR), Battery (voltage, current, remain backup time, status, temperature), UPS status, Alarm, 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)								
ENVIRONMENTAL									
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)	720 ×1400×690				890×1600×775			1200 ×1600×690	
Net Weight (kg)	270	300	340	360	560	630	700	950	1075
Shipping Weight (kg)	300	335	375	395	605	675	745	1010	1145

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

Authorized Distributor

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