

# KTT-series



## True On-line Double Conversion UPS

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

- True on-line double conversion technology
- Full DSP control
- High power factor
- Wide input adaptability
- Strong overload capability
- N+x parallel redundancy up to 6 units
- Emergency Power Off function (EPO)
- LED indicator and large LCD display
- Intelligent battery management
- Flexible battery configuration
- Provides the LBS synchronization function
- Generator mode
- Product from ISO 9001 and ISO 14001 certified factory



MODEL	KTT-10	KTT-20	KTT-30	KTT-40	KTT-60	KTT-80	KTT-100	KTT-120	KTT-160	
Capacity (kVA/KW)	10/9	20/18	30/27	40/36	60/54	80/72	100/90	120/108	160/144	
<b>INPUT</b>										
Operating Voltage Range	380/400/415 Vac (-25%/ + 20%), (3Ph+N+PE)									
Operating Frequency Range	50/60 Hz (±5%)									
Power Factor	≥0.97 *									
<b>OUTPUT</b>										
Output Voltage	380/400/415 Vac (±1%), (3Ph+N+PE)									
Output Frequency	50/60 Hz (±0.05%)									
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%		
<b>BYPASS</b>										
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)									
<b>BATTERY</b>										
Battery voltage (Vdc)	384 Vdc (360~384 Vdc)									
<b>SYSTEM FEATURES</b>										
Transfer Time (ms)	0 (Line mode→ Battery mode)									
Overload	Load ≤110%/60min; ≤125%/10mins; ≤150%/1 min, to Bypass									
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									
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									
<b>ENVIRONMENTAL</b>										
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				
<b>PHYSICAL</b>										
Dimension WxDxH (mm)	350×650×1050			430×830×1100		720×690×1400	720×690×1400	890×790×1600	890×790×1600	
Net Weight (kg)	145	165	204	255	320	450	556	693	780	
Shipping Weight (kg)	160	180	225	280	345	485	591	738	825	
<b>STANDARDS</b>										
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									

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MODEL	KTT-200	KTT-300	KTT-400	KTT-500	KTT-600	KTT-800	
Capacity (kVA/KW)	200/180	300/270	400/360	500/450	600/540	800/720	
<b>INPUT</b>							
Operating Voltage Range	380/400/415 Vac (-25%/+20%), (3Ph+N+PE)						
Operating Frequency Range	50/60 Hz (±5%)						
Power Factor	≥0.97 *						
<b>OUTPUT</b>							
Output Voltage	380/400/415 Vac (±1%), (3Ph+N+PE)						
Output Frequency	50/60 Hz (±0.05%)						
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%	
<b>BYPASS</b>							
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)						
<b>BATTERY</b>							
Battery Voltage	384 Vdc (360~408 Vdc)			480 Vdc		600 Vdc	
<b>SYSTEM FEATURES</b>							
Transfer Time (ms)	0 (Line mode → Battery mode)						
Overload	Load≤110%/60min; ≤125%/10mins; ≤150%/1 min, to Bypass						
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, settings						
Communication Interface	RS232, RS485, EPO, Dry contact, SNMP card (Optional)						
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor						
<b>ENVIRONMENTAL</b>							
Operating Temperature	0~40°C						
Storage Temperature	-25~55°C						
Humidity Range	0~95% (Non-condensing)						
Altitude	<1500 m						
Noise Level	<72 dB			<75 dB			
<b>PHYSICAL</b>							
Dimension WxDxH (mm)	1200×800×1600	1400×1000×1900		2580×1000×1900	2800×1040×1900	3280×1040×1900	
Net Weight (kg)	1030	1560	1640	3510	3950	4950	
Shipping Weight (kg)	1130	1690	1770	3730	4250	5245	
<b>STANDARDS</b>							
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						

\* With optional filter. Request when order. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

### Applications

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

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