

KTT-series



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 port
- 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-104	KTT-124	KTT-164	KTT-204	KTT-304	KTT-404	KTT-504
CAPACITY	VA	100 kVA	120 kVA	160 kVA	200 kVA	300 kVA	400 kVA	500 kVA
	Watt	90 kW	108 kW	144 kW	180 kW	270 kW	360 kW	450 kW
MAIN INPUT	Voltage	(380 / 400 / 415 Vac) : 380 Vac (L-L) ± 25%						
	Frequency	50 / 60 Hz ± 5 Hz auto sensing						
	Phase	Three phase four wires						
	Power factor	1 (with filter)						
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%						
	Transient voltage response	5%						
	Power factor	0.9						
	Frequency (battery mode)	50 Hz ± 0.05%						
	Total Harmonic Distortion	< 3% at linear load, < 5% at non-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	91%	91.5%	91.5%	92%	93%	94%	94%
BATTERY	Type	sealed lead acid (maintenance free) rechargeable						
	Nominal voltage	384 Vdc						480 Vdc
STANDARD	EMI attenuation	IEC 62040-2						
	EMS	IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge)						
	Industrial standard	CE, EN / IEC 62040-2, EN / IEC 62040-1-1						
	Enclosure protection	IP20						
INDICATOR	Front panel LED	Input, Inverter, Battery, Output status						
	Front panel LCD's	Input & output voltage, frequency, power factor, battery voltage, battery current, battery status, load percentage, UPS status, history record, parameters setting						
AUDIBLE ALARM	Buzzer	yes						
COMMUNICATION INTERFACE	Standard interface	RS-232 port and RS-485 port						
	SNMP/HTTP capability	option						
	Dry contact	option						
SOFTWARE	UPS monitoring and management software	yes						
ACOUSTIC NOISE	At 1 metre	< 68 dBA	< 70 dBA	< 72 dBA				
ENVIRONMENT	Temperature	0 - 40°C						
	Relative humidity	0 - 95% (non-condensing)						
DIMENSIONS	W x H x D (approx. in cm.)	160 x 190 x 94.5				163.5 x 190 x 104		280x190x104
WEIGHT	Approximate in kg.	800	902	1,219	1,245	1,800	2,050	3,700

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

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