

KTM-series

True On-line Double Conversion UPS

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



High reliability design

- Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, noise suppression, and without power fluctuation interference, providing the load with more comprehensive protection
- Zero transfer time of output, satisfies high standard power requirements of precision equipment
- Modular design and dual-CPU control, high reliability and stability ensure the safe operation and high efficiency

Optimization of high-performance battery

- Adapt intelligent battery management (ABM) technology, thus it extends battery life and reduces battery maintenance times
- Advanced CC (Constant current)/CV (Constant voltage) auto-conversion charging technology maximizes the activation of cells, thus it saves the charging time and extending the battery life

High reliability during operation

- Pure online static bypass technology, provides a strong protection against overload and fault
- Built-in manual maintenance bypass, further improves the reliability of continuous operation

Wide input range

- The range of AC input voltage is $380V \pm 20\%$, thereby it reduces the battery using frequency and greatly extending the battery life
- Wide input frequency range, ensure all types of fuel generators connected work stable

Comprehensive and reliable protection

- Self-diagnosis function before start-up, avoid the risks that maybe lead to the failure
- The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability

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Strong Redundancy/parallel ability

- Some units can be directly connected in parallel, increasing the scalability of the system
- The parallel system can share a group of backup battery
- Non-fixed Master-Slave relationship: Among several UPS in parallel, the unit startup first is Master UPS, the others are Slave UPS. The master and slave can be exchanged. If the inverter of one UPS fails, the UPS will automatically cut off the output, then the load will be powered by remained UPS

User-friendly network management

- English language selectable via LCD panel
- RS232 communication interface
- RS485 communication interface (Support MODBUS protocol)
- SNMP card (Optional)
- Events log can be record in the LCD panel
- Dry contact signal port are available

Specifications:

MODEL	KTM-10
Capacity	10kVA/8kW
INPUT	
Operating voltage	380/400Vac \pm 20%, (3Ph+N+PE)
Operating frequency	50/60Hz \pm 5%
Power factor	\geq 0.97 *
OUTPUT	
Output voltage	220Vac \pm 1%
Output frequency	50/60Hz \pm 0.5%
Crest factor	3:1 (Max)
Efficiency	86%
Total Harmonic Distortion	THDv \leq 2% (Linear load)
BATTERY	
Battery voltage	192Vdc
SYSTEM FEATURES	
Transfer time	0 ms (Line mode to Battery mode)
Overload	110% \leq Load \leq 150% for 1min; >150% for 200ms, to Bypass
LED display	Low battery voltage, Mains status, Inverter, Bypass, UPS failure, Overload
LCD display	I/O voltage, Frequency, Battery voltage, Load percentage, Internal temperature
Communication interface	RS232, RS485, EPO, Dry contact, SNMP (Optional)
ENVIRONMENTAL	
Operating temperature	0~40°C
Storage temperature	-25~55°C
Humidity range	0~95% (Non-condensing)
Altitude	<1500m
Noise level	<60dB
PHYSICAL	
Dimension W×D×H (mm)	305×585×864
Net weight (kg)	115
Shipping weight (kg)	125
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

* With optional filter

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

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