

UTT-series

Three Phase True Online UPS

Smart Protection

- Static bypass
- Manual maintenance bypass
- Zero time transfer
- EMI protection
- Surge, over charge, over discharge, overload, and short circuit protection

Power Display and Management

- LED indicator and LCD display with control panel (10kVA- 30kVA model)
- LED indicator and large touchscreen LCD (40kVA - 120kVA model)
- Intelligent battery management
- Hot swappable battery
- Extended backup time (option)

Communication

- RS-232, RS-485 port and dry contacts
- SNMP/HTTP monitor capability (option)

Saving

- High efficiency > 98% in Eco mode
- Front opening door for easy access and maintenance

Safety

- Emergency Power Off function (EPO)

Reliable Power Quality

- Input voltage 380 Vac (L-L) with -40% to 25%
- Input frequency 50 Hz/60 Hz
- Output voltage 380 Vac (L-L) \pm 1%
- Output frequency 50 Hz/60 Hz \pm 3 Hz adjustable

High Reliability

- True on-line double conversion technology
- Modular design with high MTBF and low MTTR
- Horizontal modularity parallel redundant configuration up to 6 units
- Full digital control with three DSPs including IGBT rectifier, inverter and charger
- Digital circulating current control technology
- Intelligent self-diagnose function

Applications

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



MASC
ISO 9001 QMS 01038/349
ISO 14001 EMS 01007/545



NSC-TIS-TIS 17021
QMS 002 / EMS 005



TIS 1291-2545

UTT-series Three Phase True On-Line Double Conversion Sine Wave UPS

SPECIFICATIONS

MODEL		UTT-40	UTT-60	UTT-100	
CAPACITY	VA	40 kVA	60 kVA	100 kVA	
	Watt	36 kW	54 kW	90 kW	
MAIN INPUT	Voltage	304 - 478 Vac (L-L) full load, 228 - 304 Vac (L-L) load decrease linearly according to the min phase voltage			
	Frequency	50 / 60 Hz			
	Frequency range	40 - 70 Hz			
	Terminal connection	3 phase + N + PE			
	Power factor	more than 0.99			
	Total harmonic distortion	THDi < 3% at full linear load			
BYPASS INPUT	Voltage	380 Vac (L-L) -20% to 15%			
	Frequency	50 / 60 Hz ± 5 Hz			
OUTPUT	Voltage	380 Vac (L-L) ± 1% (balance load), 1.5% (unbalance load)			
	Voltage transient	5% (0 - 100% load step)			
	Power factor	0.9			
	Frequency	50 Hz ± 3 Hz (adjustable)			
	Frequency precision	± 0.02% (free running)			
	Phase tolerance	120° ± 0.5° (balance and unbalance load)			
	Voltage unbalance degree	± 1%			
	Frequency tracking speed	0.5 Hz/s to 5 Hz/s (adjustable)			
	Total harmonic distortion	THDv < 1% at linear load, THDv < 5.5% at non-linear load			
	Overload capability		102% long time operation 110% transfer to bypass after 1 hour 125% transfer to bypass after 10 minutes 150% transfer to bypass after 1 minute > 150% transfer to bypass after 200 ms		
		Bypass overload capability	125% long time operation 125% < load < 130%, last for more than 1 hour 130% < load < 150% last for more than 6 minutes >1000% last for more than 100 ms		
	EFFICIENCY	Crest factor ratio	3 : 1		
AC to AC		95%			
Economy mode		> 99%			
BATTERY	Battery mode	95%			
	Type	sealed lead acid (maintenance free) rechargeable			
	Capacity	40 x 12 V (external battery)			
	Backup time	15 - 30 min (depending on connected load)			
	Extended backup time	option			
	Recharge time	80% capacity after 8 hours charging			
STANDARD	Safety	IEC/EN 62040-1			
	EMC	IEC/EN 62040-2			
	Enclosure protection	IP20			
INDICATOR	Front panel LED	UPS Status, Bypass, Rectifier, Inverter, Output, Battery			
	Front panel LCD's	Input (V, A, Hz, power factor), Bypass input (V, A, Hz, power factor), AC output (V, A, Hz, power factor), Load (kVA, kW, kVAR, %), Battery data (V, A, %, °C, environmental temperature, remaining backup time, equalize charging, float charging, disconnected), Current and History alarm and UPS system information			
AUDIBLE ALARM	Buzzer	yes			
CONNECTION		top or bottom cable connection			
COMMUNICATION INTERFACE	Standard interface	RS-232 port, RS-485 port and dry contacts			
	SNMP/HTTP capability	option			
SOFTWARE		UPS monitoring and management software			
ACOUSTIC NOISE		< 55 dBA at 1 metre			
ENVIRONMENT	Temperature	0 - 40°C			
	Humidity	0 - 90% (non-condensing)			
DIMENSIONS	W x H x D (approx. in cm.)	50 x 140 x 84	60 x 95 x 98	60 x 115 x 98	
WEIGHT	Approximate in kg.	140	200	250	

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

Authorized Distributor

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