

ISOLATED UPS 10KVA

TX10K

Uninterruptible Power Supply
with built in isolation
transformer providing
best in class power protection

- Full electrical isolation with output transformer with dual secondary windings
- Configurable output of 230 / 115 V and combination
- Wide input voltage window
- Ratings from 3.6KW to 10KW depending on load and infrastructure requirements
- Options for pluggable 16A and 32A units with CEE 60309 Plug / Sockets
- Tower unit on wheels for ease of installation
- Internal battery for compact solution
- Built in Bypass
- Parallel capable for increased power or redundancy



POWER INSPIRED

Rear

RS232 & USB Comms

For monitoring via an attached computer

EPO

Shuts down the TX in an emergency

Parallel Connections

Multiple systems can be connected for increased power or redundancy

Intelligent Slot

A port allowing connection of either

- SNMP – for monitoring over a network
- Relay – for connection to external alarm or Building Management System

External Battery Port

The TX contains internal batteries and further runtime can be achieved with external battery cabinets

Bypass Switch

Allows the TX to be turned off whilst maintaining power to the load. Microswitch activates on plate removal to force bypass mode

Input Breaker

Allows the TX to be easily started
Protected from accidental shut off.

Input & Output Gland Plate

Input and Output terminal plate is covered with gland plate/box for full cable restraint and safety.

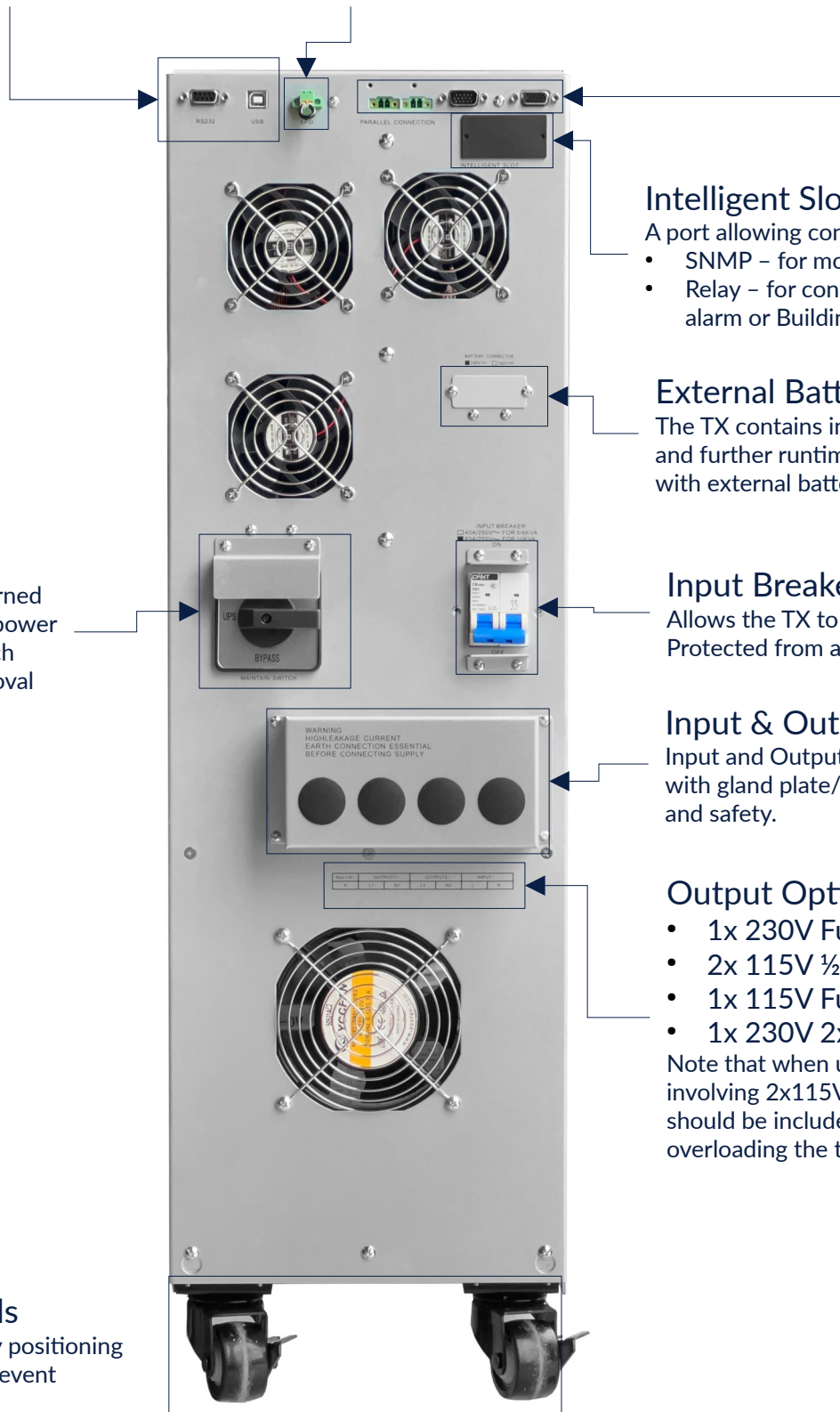
Output Options

- 1x 230V Full Power
- 2x 115V ½ Power each
- 1x 115V Full Power
- 1x 230V 2x 115V

Note that when using configurations involving 2x115V, external protection should be included to prevent overloading the transformer.

Lockable Wheels

The wheels allow easy positioning of the TX and locks prevent accidental movement



SPECIFICATIONS

MODEL		TX10K
CAPACITY*		10kVA/10kW. Units can be paralleled to increase capacity or introduce redundancy. Unit can be electronically rated between 3.6KW – 10KW (option at purchase)
INPUT		
Voltage Range		180~300VAC (Full Load) 130VAC~300VAC (<60% Load)
Frequency range		46~54Hz (50Hz System) 56~64Hz (60Hz System)
Phase		Single Phase w Ground
Power Factor		≥0.98 @ 100% Load
OUTPUT		
Output Voltage		208/220/230/240VAC. Output transformer has dual windings allowing for half voltage options: 104/110/115/120VAC
AC Voltage Regulation		±1% (Battery)
Frequency (Synchronised)		As input
Frequency (Battery)		50±0.1Hz or 60±0.1Hz
Overload	AC Mode	100~110%: 10min, 110%~130%: 1min, >130%: 1sec
	Battery Mode	100~110%: 30sec, 110%~130%: 10sec, >130%: 1sec
Current Crest Ratio		3:1
Harmonic Distortion		<2% @ 100% Linear Load, <6% @ 100% Non-linear load
Transfer Time	Line ↔ Battery	0ms
	Inverter ↔ Bypass	4ms
	Inverter ↔ ECO	<10ms
Waveform		Pure Sinewave
EFFICIENCY		
AC Mode		≥88%, 93.5% Max
ECO Mode		98% Max
Battery Mode		≥88%, 92% Max
BATTERY		
Type		12V/9Ah
Qty		20
Charge Current		1A
PHYSICAL		
Dimension WxDxH (mm)		250x592x826
Net Weight (kg)		142
ENVIRONMENT		
Operating Temperature		0~40°C (Note diminished battery life at >25°C)
Humidity		20-95% RH Non Condensing
Altitude		<1000m. Derate unit 1% for every 100m climb in altitude
Noise Level		<50dBA @ 1m
MANAGEMENT		
Smart RS232 or USB		Supports Windows, Linux, Unix & MAC Platforms
Intelligent Slot		Supports Power Management from SNMP manager & web browser. Supports Relay Card

* Capacity is derated to 50-80% when operating in frequency converter mode and 80-90% at 200/208V output.

NOTES:

- 1) Output isolation transformer is dual secondary winding allowing for 115V and 230V output options. Certain configurations need protection against overload downstream of the transformer. For example dual 115V outputs that are isolated from each other must not draw more than ½ the UPS rated power.
- 2) The UPS does not contain a backfeed relay and a suitable contactor must be provided in the distribution and the circuit marked to warn of potential backfeed.
- 3) The UPS can be supplied with pluggable industrial inlets and outlets and the TX will be derated to match the current rating. With such cable kits an inline contactor is provided for backfeed protection.

Although every effort is made to ensure accuracy of this document, information is provided for guidance only and does not form part of any contract.
Specifications are subject to change without notice.

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