



Enyo Tower

T33X UPS (20-40kVA)

PRODUCT DESCRIPTION

The Enyo Tower T33X series (20-40kVA) is 3-phase input / 3-phase output high frequency tower type online double conversion UPS with full DSP control technology.

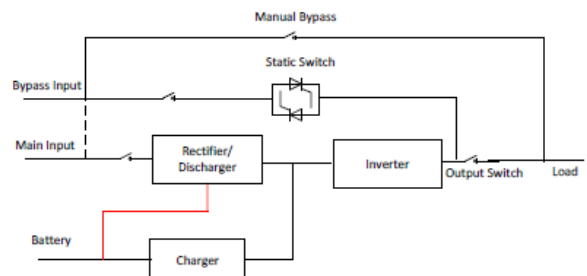
The double conversion architecture provides tight voltage regulation, frequency regulation, and zero transfer time to battery during power failure events.

KEY FEATURES

- **Online Double Conversion Topology**
Zero transfer time to battery mode
- **Advanced DSP Control Technology**
- **Highly Efficient @ >95%**
- **Cold Start Function (Optional)**
Allows turn-on of unit at absence of utility
- **Smart RS232/USB Interface for management**
Supports real time monitoring automatics shutdown and other management functions
- **LCD/LED Display**
Easy monitoring of operating parameters with graphic display
- **Full Protection**
Overvoltage protection, over temperature protection and short circuit protection
- **Automatic Fan Speed Adjustment**
- **Emergency Power Off (EPO)**

APPLICATIONS

- ISP (Internet Service Provider)
- IDC (Internet Data Centre)
- Computer Room
- Service Centres
- Rack and Distributed Servers
- Sensitive Electronic Equipment
- Precision and Intelligent Equipment

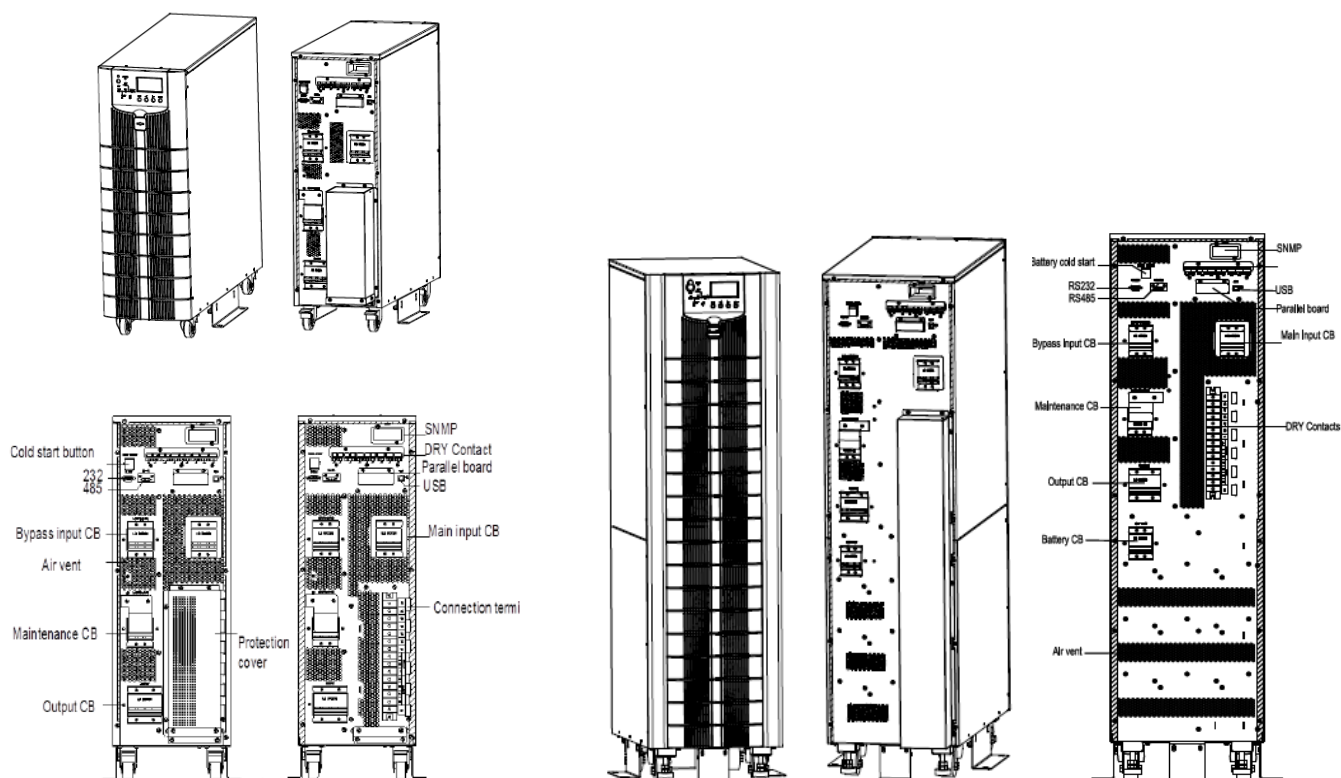


TECHNICAL SPECIFICATIONS

MODEL	Enyo T33020XL	Enyo T33020XS	Enyo T33030XL	Enyo T33030XS	Enyo T33040XL	Enyo T33040XS
Capacity (kVA)	20		30		40	
INPUT						
Grid System	3-Phase + Neutral + Ground					
Rated Input Voltage	380/400/415Vac (Line-Line)					
Frequency	50/60Hz					
Voltage Range	304Vac to 478Vac (line-Line) @ full load 228Vac to 304Vac (Line-Line) @ linear de-rating power until min phase voltage					
Frequency Range	40-70Hz					
Power Factor	>= 0.99					
Current THDi	< 3% @ full linear load					
BYPASS INPUT						
Nominal Bypass Voltage	380/400/415Vac (Line-Line)					
Frequency	50/60Hz					
Bypass Voltage Range	Selectable, default @ -20% to +15%					
	Upper Limit @ +10%, +15%, +20%, +25%					
	Lower Limit @ -10%, -15%, -20%, -30%, -40%					
Bypass Frequency Range	Selectable @ ±1Hz, ±3Hz, ±5Hz					
Bypass Overload	125% @ continuous operation					
	125% to 130% @ 10 mins					
	130% to 150% @ 1 min					
OUTPUT						
Voltage	380/400/415Vac (Line-Line)					
Frequency	50/60Hz					
Power Factor	0.9					
Voltage Regulation	±1.5% (0% to 100% linear load)					
Waveform	Pure Sinewave					
Transient Response	<=5% for step load (20%~80%~20%)					
Transient Recovery	<=30ms for step load (20%~100%~20%)					
THDu (linear load)	<=1%					
THDu (non-linear load)	<=6% (according to IEC62040-3)					
FREQUENCY						
Frequency Regulation	50/60Hz ± 0.1%					
Synchronised Range	Settable, ±0.5Hz to ±5Hz, default @ ±3Hz					
Synchronised Slew Rate	Settable, 0.5Hz/s to 3Hz/s, default @ 0.5Hz/s					
EFFICIENCY						
Normal Operation	>95%				>96%	
Battery Operation	>95%				>96%	
OVERLOAD CAPABILITY						
Overload (Inverter mode)	110%: < 60 mins					
	110% to 125%: 10 mins					
	125% to 150%: 1 min					
BATTERY and CHARGER						
Nominal DC Voltage	±240Vdc					
Charging Voltage Regulation	±1%					
Charging Power	Max @ 20% of system power					

TECHNICAL SPECIFICATIONS

MODEL		Enyo T33020XL		Enyo T33020XS		Enyo T33030XL		Enyo T33030XS		Enyo T33040XL		Enyo T33040XS	
SYSTEM													
Display		LED + LCD											
Interface		Standard: RS232, RS485											
		Optional: SNMP, Dry Contact, Parallel Kit											
		Optional: Battery Cold Start											
OPERATING ENVIRONMENT													
Humidity		0-95% RH @ 0-40°C (non-condensing)											
Operating Temperature		0°C to 40°C											
Storage Temperature		-40°C to +70°C											
Altitude		< 1000m											
Noise Level @ 1m (100% load)		< 65dB											
Noise Level @ 1m (45% load)		< 62dB											
PHYSICAL													
Unit Dimensions WxDxH (mm)		250x680x770		350x738x1335		250x680x770		350x738x1335		250x680x770		500x840x1400	
Unit Net Weight (kg)		50		89		52		89		61		140	



20/30/40kVA L models (Long battery backup)

20/30/45kVA S models (Standard battery backup)