

**Industrial  
Type Design**  
Suitable for  
All Applications



## U-Touch Series 10-1000kVA

True On-Line Double Conversion Isolated UPS

**U-TP31** — 3 Phase Input / 1 Phase Output

**U-TP33** — 3 Phase Input / 3 Phase Output

### Features

- True On-line Double Conversion (VFI Class)
- Fully Double DSP Control, High Reliability and Performance
- IGBT Inverter and Output Isolation Transformer
- HMI - Human Machine Interface with Graphic LCD Touch Panel
- 3 phases UPS allow 100% Unbalance Load
- Automatic & Manual Static Bypass Switch
- DC Cold Start Function
- Intellectual Battery Charging & Self - Test
- Intelligent Fan Speed Control
- Eco Mode and EPO Function
- Intelligent Multi -Type Communication Ports
- Advanced No - master-slave N+X Parallel Technology (optional)
- Intelligent Battery Monitor System - MMBM (optional)
- 6 Pulse / 12 Pulse Rectifier (optional)
- Bypass Isolation Transformer (optional)



### Applications :

- Computer & Networking
- Industrial Equipment
- CNC & Wire cut & PLC
- Robot & Laser-Welding
- Medical & Lab Equipment
- Metrology & Precision Devices
- Logistics & Telecoms
- Financial & Securities

\* **SPECIFICATIONS** : True On-line Double Conversion With Isolated Transformer

		U-TP Series															
Appearance >																	
MODEL		3110L / 3110S	3115L / 3115S	3120L	3130L	3140L	3150L	3160L									
***U-TP31	3P Input / 1P Output	3110L	3115L	3120L	3130L	3140L	3150L	3160L									
***U-TP33	3P Input / 3P Output	3310L	3320L	3330L	3340L	3360L	3380L	33100L	33120L	33160L	33200L	33250L	33300L	33400L	33500L	33600L	
Power Rating	kVA	10	20	30	40	60	80	100	120	160	200	250	300	400	600	600	
	kW	9	18	27	36	54	72	90	108	144	180	225	270	360	540	540	
INPUT		-Rectifier															
Voltage (Vac)		U-TP31 (3P / 1P) : 380 / 400, **208 / **220 ± 25 % (3P4W + PE) , U-TP33 (3P / 3P) : 380 / 400, **208 / **220 ± 20 % (3P4W + PE)															
Frequency (Hz)		50 / 60 ± 10% (50 / 60Hz Settings)															
OUTPUT		-Inverter															
Voltage (Vac)	3P Input / 1P Output	220 ± 1% (1P2W + PE)								-							
	3P Input / 3P Output	380 / 400, 208 / 220 ± 1% (3P4W + PE)															
Frequency (Hz)		50 / 60 ± 0.1% (Inverter Mode)															
Wave Form		Pure Sine Wave, THD ≤ 2% (Linear Load)															
Unbalance Load Voltage		≤ 2%, Compatible 100% Unbalance															
Efficiency / Power Factor		> 95% (Full Load) / 0.9 (0.8 / 1.0 Optional)															
Overload	3P Input / 1P Output	125% Load for 1 min, 150% Load for 20 Secs								-							
	3P Input / 3P Output	110% Load for 30 mins, 125% Load for 10 mins, 150% Load for 1 min															
Transfer Time		0 msec															
BATTERY																	
Voltage (Vdc)	3P Input / 1P Output	192				348				-							
	3P Input / 3P Output	348 (348 / 360Vdc Flexible Configuration)															
Battery	Type	Sealed Lead - Acid Maintenance Free (5 / 10 / 20 Years Life - Time upon request)															
	3P Input / 1P Output	External / 12V 7Ahx32	External / 12V 7Ahx48	External				-									
	3P Input / 3P Output	External															
Charger Current (A)	3P Input / 1P Output	3/4.5A				10 ~ 20A Setting				-							
	3P Input / 3P Output	10 ~ 40A Setting												20 ~ 80A Setting			
SYSTEM FEATURES																	
Maintenance Bypass	3P Input / 1P Output	Optional				Yes				-							
	3P Input / 3P Output	Yes															
Communication Interface		RS232 / RS485 and Dry Contacts (USB / J-BUS / MODBUS / PROFIBUS / HTTP / SNMP are Optional)															
Display Panel		Homepage Status : OFF / Normal / Rectifier Abnormal / Protection / Check Battery Please / Charge Hall Abnormal / Bypass Abnormal / Overload / Battery Test / Battery Reverse Polarity / Load Alarm / Parallel Cable Abnormal / Battery Low Voltage / Battery Normal / Battery Capacity Going Down / Recommend to Replace Battery / Fan Abnormal / EPO on / Battery Circuit Abnormal / Manual Bypass On / Phase U Overcurrent / Phase V Overcurrent / Phase W Overcurrent / Battery Running Out / DC Over Voltage / Fuse Abnormal / Debugging Mode.															
LCD TOUCH SCREEN	Working Status :	Parallel Unit / Single Unit / Phase Sequence / Battery Status / Output Status / Rectifier Status / Inverter Status / Load Status / UPS Temp. Battery Polarity															
	Parameter Setting :	Screen / Password / Record / Output / Input / Batt.MGR / Buzzer / ECO Mode / Event Log															
	Others :	Ac Input (V / Hz), Bypass Input (V / Hz), System Output (V / A / Load - % / kW / kVA / Hz), Battery (V / A / C / Status - Charge)															
Alarm		Overload, Abnormal AC Input, Low Battery, UPS Failure, Backup time															
Protection System		Automatic Self - Diagnostics Test, Input Over & Under Voltage, Output Over & Low Voltage, Output Stabilizer, Overload, Low & End - Discharger Battery, MOV Surge & Short - Circuit, EMI & RFI Noise Filter, Over Temperature, **Reverse Energy Absorber.															
Audible Noise / Temp. / Humidity (dBA)		< 55 (dBA) / 0 ~ 40°C / 0 ~ 95% (Non - Condensation)															
PHYSICAL																	
Dimension (cm) (W x D x H)	3P Input / 1P Output	35 x 78.5 x 65 / 40 x 80 x 118				40 x 80 x 118				-							
	3P Input / 3P Output	50 x 60 x 118				50 x 80 x 160				70 x 80 x 180		140 x 100 x 185		160 x 100 x 185		300 x 100 x 185	
Weight (Kg)	3P Input / 1P Output	143/230	173/320	203	225	273	304	320									
	3P Input / 3P Output	230	250	300	400	450	520	600	650	825	1280	1568	1830	2050	4500		

\* Specifications are subject to change without prior notice.

Spec. STD.04-08-18

\*\* Optional of Specifications

\*\*\* Model : U-TP/B31xxx & U-TP/B33xxx are Parallel UPS.

\*\*\*\* Model : U-TP31xxx are LCD Display Panel



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