

LTH Series

The LTH Series UPS is an industrial online UPS which provides reliable and stable pure sine wave output power to your critical loads. With advanced technology of Rectifier, IGBT, PWM and CPU control, the LTH Series UPS is highly reliable. Besides, the LTH Series UPS applied true galvanic isolation design to solve the problem of utility AC power such as noise, lighting leakage current etc. Furthermore, the LTH Series UPS has individual inverter supports per phase which can endure 100% unbalance load. With its outstanding features, the LTH Series UPS provides safe, reliable and uninterrupted power to your sensitive electronic equipments at all times.



- **Low Frequency Type UPS**

Industrial on line UPS which can operate under harsh environment.

- **True Galvanic Isolation Design**

Input true galvanic isolation transformer to solve the problem of Mains power such as noise, lighting, etc.

- **Each Phase with Inverter**

Each phase with individual inverter to support 100% unbalance load.

- **With Maintenance Bypass**

Built-in maintenance bypass N.F.B. to let output power uninterrupted when the UPS needs to be repaired.

- **Multiple Communication Ports**

Built-in RS232, remote monitor contacts, RS485 and dry contact to let you monitor and manage the UPS.

- **No Battery Start Up Function**

In case the battery is damage, the UPS can still start up normally with the Mains power.

- **Phase Angle Shift Protection**

In case the input power phase angle shift, the UPS will alarm.

- **Wrong Phase Rotation Protection**

In case the input wiring phase rotation is incorrect, the UPS will alarm.

- **Event Log Record**

The CPU can record up to 400 entries of the UPS abnormal events.

- **Intelligent Battery Charger**

The intelligent battery charger controls boost and floating charging voltage to protect battery.

- **DC Start Up Function**

The UPS can be start up without the Mains power.

- **Option for 12 Pulse Rectifier**

The UPS can have 12 pulse rectifier to reduce the harmonic current.

Demonstration



* Application to laboratory, industrial machine and medical equipment

Specification

Model (LTH-)		3110	3120	3130	3140	3304	3305	3306	3308	3310	3320	
Capacity (KVA)		10	20	30	40	50	60	80	100	120	160	
Input	Voltage	3 Phase 4 Wire + G, 220/380VAC, 230/400VAC, 240/415VAC										
	Voltage Range	± 20%										
	Frequency	50Hz or 60Hz ± 5%										
	Power Walk-in	0 ~ 100% : 10 seconds										
Output	Voltage	3 Phase 4 Wire + G, 220/380VAC, 230/400VAC, 240/415VAC										
	Frequency	50Hz or 60Hz ± 0.5%										
	Static Regulation	± 1% at linear load										
	Dynamic Regulation	<=2% at 50% load unbalance, <=5% at 100% load unbalance										
	THD Distortion	<=3% at linear load, <=5% at non-linear load										
	Transient Response	<5ms										
Battery	Power Factor	0.8										
	Voltage	192VDC (12V*16pcs)					348VDC (12V*29pcs)					
	Charge Current	As customer demand										
	Float Voltage	216VDC					390VDC					
	Boost Voltage	227VDC					410VDC					
Static Switch	Recharge Time	4 ~ 8 hours 90% after fully discharge										
	Main <-> Inverter	No break										
Indicator	LCD Display	Input / Output Voltage, Input / Output Frequency, Output Loading Status										
	LED Display	Battery Status, Event Log										
Protection	Mimic display	Mimic display										
	Overload	100% ~124% for 10 minutes, >125% for 1 minute, >150% to bypass										
	Over Temperature	Yes										
	Phase Rotation Incorrect	Yes										
	Phase Angle Shift	Yes										
Environment	Lighting/EMI Filter	Yes										
	Temperature	0 ° C ~ 40 ° C										
	Humidity	0% ~ 95%, non-condensing										
Communication	Noise Level	<60dB at 1 meter					<65dB at 1 meter					
	Interface Port	RS232, Dry Contact, RS485, Remote Monitor Contacts RS485-RS232 Adapter (option), Remote Monitor Box (option) RS232-SNMP Adapter (option)										
Dimension W*H*D(mm)	UPS	650*1550*800					1100*1710*860					
	Battery	Internal battery					Depends on external battery bank					
Net Weight	UPS (No Battery)	350	400	450	500	550	600	650	800	900	1050	

* Product specification is subject to change without prior notice