



LM/LT 5-200KVA

THREE-PHASE IN / THREE-PHASE OUT
DOUBLE CONVERSION ON-LINE UPS

- Indigenous design as per international specification.
- Energy-Saving **environment friendly UPS**..
- Active Input Power Factor Correction 0.99 with less than 5% input current THD.
- Galvanic isolation with rugged long life design for comprehensive power protection.
- Ideal power conditioner with VFI technology; provides frequency stabilization

- ▶ Data management equipment and system
- ▶ Automatic control systems
- ▶ Hospital
- ▶ Mini office system
- ▶ Telecommunication systems
- ▶ Bank

KEY FEATURES

- ▶ Adopt twin change on line technology, sequester extraneous interference
- ▶ Favorable overload ability and protection
- ▶ Design with 100% unbalance protection
- ▶ 100% Non linear load ability
- ▶ IGBT, PWM inverter together with digital

Super Safety

- ▶ The output isolate transformer can avoid the destruction of abnormal signal & lightning stroke
- ▶ With static bypass, repair bypass, battery maintain bypass
- ▶ Cold start

AN IDEAL POWER CONDITIONER

Designed and built for harsh power conditions, our UPS provides dependable, premium quality regulated power even under highly fluctuating input voltage and frequency (Converts the generator output into clean, computer network grade, highly regulated power supply).

GALVANIC ISOLATION MODEL

Galvanic isolation model for comprehensive power protection. Rugged, long life design for harsh electrical and environment conditions. (Expected life of 15-20years as against 5-7yrs of imported models)

PRODUCT RELIABILITY .

Proven product on all kinds of application The product has an installation base of more 5,000 on various applications across the country from past 12 years.

UPS FOR INDUSTRIAL LOADS

LT with its strong overload capability, output galvanic isolation and low harmonic current distortion, is the ideal solution for industrial applications. Thanks to the high battery current, LT Series is suitable to work with large battery banks as it can guarantee recharging in 10 hours as recommended by the battery manufacturer.

MAXIMUM BATTERY CARE

Optimal battery management includes:

- Protection against deep discharge,
- Recharge temperature compensated.

MOBILE PHONE INTERFACE . .

Online UPS with mobile Phone interface Receive SMS about the status of UPS and pre-trip conditions much before the UPS could trip, enabling the user/maintenance engineers to carry out a damage prevention measures.





TECHNICAL SPECIFICATION

SINGLE PHASE I/P » SINGLE PHASE O/P THREE PHASE I/P » SINGLE PHASE O/P THREE PHASE I/P » THREE PHASE O/P

INPUT			
Normal Voltage	220VAC Single Phase & N	415VAC Three Phase & N	415VAC Three Phase & N
Input Voltage Window	-20%, +15%	-20%, +15%	-20%, +15%
Normal Frequency	50 Hz ± 6%	50 Hz ± 6%	50 Hz ± 6%
DC Bus	48V – 192VDC	120VDC – 360VDC	120VDC – 360VDC
Rectifier	Full wave	Full wave	Full wave
Charger	Active input power factor correction	12 Pulse	12 Pulse
Input PF	>.99	>.95	>.95
Input Current THD	<5%	<5%	<5%
Type	C VCC	C VCC	C VCC

OUTPUT			
Nominal Voltage	230VAC single phase.	230VAC single phase.	400VAC, 3 Phase with N 230VAC single phase between L & N
Regulation	(±) 1%	(±) 1%	(±) 1%
Frequency	50Hz ± 0.1Hz	50Hz ± 0.1Hz	50Hz ± 0.1Hz
Waveform	True sine wave	True sine wave	True sine wave
Isolation	True online, with complete galvanic isolation as per IEC 62040-1 (safety standards)		
Total Harmonic Distortion	<2% minimum for linear load, <6% for non linear load		
Overload Capacity	125% for 10 min and 150% for 1 min		
Inverter Type	IGBT-based PWM, with Instantaneous Sine Wave Control		
Transient Response	Remain within ± 5 % and recover to normal within 20 ms		
Crest Factor	3:1	3:1	3:1
Duty	Continuous	Continuous	Continuous
Manual Bypass	Provided	Provided	Provided

EFFICIENCY			
Overall Efficiency	>87% - 90%	>87% - 90%	>87% - 90%
Converter Protection	Advanced electronic protection for device-safety backed up with MCBs / MCCBs and fast acting fuses. Soft start for 0-20 seconds power walk-in.		
Inverter Protection	Advanced electronic protection for device-safety, backed up with MCBs / MCCBs and fast-acting fuses, high-speed pulse-by-pulse electronic over-voltage / under-voltage protection, electronic over-current trip with reset.		

ENVIRONMENTAL			
Acoustic Noise Level	<60db @ 1.5 meter	<60db @ 1.5 meter	<60db @ 1.5 meter
Ambient Temperature	0 to 40° C	0 to 40° C	0 to 40° C
Storage Temperature	-10 to 70° C	-10 to 70° C	-10 to 70° C
Humidity	Up to 95% RH non-condensing		
Altitude	< 3000 meters above sea level (without derating)		
PHYSICAL			
Enclosure Protection Grade	IP - 20	IP - 20	IP - 20
Cooling	Forced Air	Forced Air	Forced Air
Cable Entry	Bottom	Bottom	Bottom
Size	Compact	Compact	Compact
LED Indications	<ul style="list-style-type: none"> • Mains On • Charger On • Inverter On • Battery Low • Overload • Inverter Trip • Charger Trip • Input MCB • Battery MCB • Auto Phase-Reversal Correction • Input Under / Over Voltage • Output Over Voltage • Output Overload • Output Short Circuit • Inverter Over Temperature 		
Software Interface	Remote power access and management software, compatible for Windows platforms		
Testing Standard	With IEC 62040 - Part III Standards		