

An ISO 9001-2008 Company

Uninterrupted Operations to Enhance Productivity



Power Conditioning Online UPS for Industrial Applications



Model:
FL-ECT Online UPS
60 KVA - 240 KVA

 Smart AFA communication
for pre-fault UPS management.



TECHNICAL SPECIFICATION

Technology	Double conversion Online with the latest MPWM technology using IGBT
Rating	60KVA - 240KVA
DC Bus	360VDC

INPUT

Input voltage	415V AC Three Ø & N
Input voltage window	330 - 470V
Input Frequency	50Hz ± 10%
Input current harmonics	With <10% THDi the input PF is improved and reduces the burden on the input power source
Input powerfactor	> 0.9
Power walk in	Soft start for 0-20 seconds power walk-in

RECTIFIER

Type	12 - pulse rectifier
Voltage regulation	(±) 1%
Ripple voltage	< 2% without battery
Converter protection	Advanced electronic protection for device safety backed up with MCBs/ MCCBs & fast-acting fuses

INVERTER

Inverter type	IGBT based MPWM with instantaneous sinewave control
Power factor	0.8 lag
Nominal voltage	400V Ph - Ph : 230V Ph - Neutral
Balanced / unbalanced load regulation & Phase shift	(± 1%), 120° ± 0.5°
Frequency	50Hz ± 0.1Hz
Waveform	True Sinewave
Linear load & Non-linear load harmonic distortion	< 2%, <6%
Transient response	Remains within ± 5% & recover to normal within 20 msec
Over load capacity	100% continuous / 125% - 1 min / 150% - 5 sec
Nominal output current / phase	60KVA - 70A / 80KVA - 93A / 100KVA - 115A / 120KVA - 140A / 150KVA-173A 200KVA - 231A / 240KVA - 278A
Crest factor	3:1

CHARGER

Charger type	CCCV
Charging current standard	0 - 20A
Inverter protection	Advanced electronic protection for device safety backed up with MCBs / MCCBs and fast-acting fuses, high speed pulse by pulse electronic device protection, over voltage / under voltage protection, electronic over current trip with reset and manual bypass
Software interface-optional	UPS manager - PC / Network interface and mobile phone interface
Load redundancy-optional	Cross load sharing - active parallel redundancy (CLS-APR)

EFFICIENCY

Overall efficiency on 100% load	90 - 93%
Operating ambient temperature	0 - 40°C
Enclosure protection grade	IP - 20
Testing standard	As per IEC 62040 - 3

Note: Specifications are indicative to our standard models and are subject to change without notice.



Ideal power conditioner

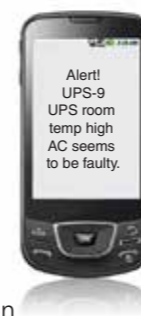
Reduces the breakdown of connected equipment by providing premium quality power of constant voltage and frequency. Cost of service and breakdown reduces by 40% leading to improved productivity and higher profit margins.


FL-ECT model [60 KVA to 240 KVA]

- Input PF 0.9 PF and <10 % THDi
- Active parallel redundant compatible
- Temperature compensated float cum boost charger for longer battery life
- Remote power monitoring software
- Solar ready models – Solar Power Capacity can be upgraded in phases

Smart AFA

Anticipated Fault Alarm, AFA communication receive SMS/Call about the status of UPS and pre-trip conditions much before the UPS could trip, enabling the user / maintenance engineers to carry out damage prevention measures.



 **Indigenous Design**
as per international standards ensures value for investment with 15 years of product life.

Application specific Online UPS for industrial environment

KU-Series

Emergency Services
Textile & Garment Industries
Cable Manufacturing
Plastic Furniture Manufacturing
Polythene Products Manufacturing
Tetra Packing Industries
Pharma Packing Industries

XPi-Series

Chemical Processes
Petrochemical
Paint Industry
Oil & Gas Pipeline Controls

MT-Series

Conveyors, Escalators & Material Lifts
Stone Crushers
Welding & Brazing
Industrial Freezers, Chillers & Compressors
Centralized Air-conditioners
Irrigation Pumps
Bottling & Distilleries

KY-Series

Food Packing Industry
Dairy Confectionery
Food Processing
Pharmaceutical Manufacturing

EX-Series

CNC Applications
Laser Cutting Machine
Industrial Drives
Automotive Manufacturing
Automated End-end Product Manufacturing

NT-Series

Metal Furnishing
Metal Smelting
Extrusion
Annealing
Kilns
Precision Industrial Ovens



CORPORATE OFFICE / WORKS

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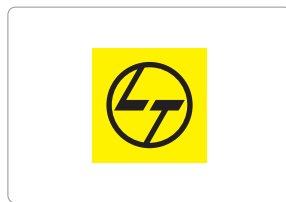


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NSIC-D&B-SMERA



Our products are evaluated and endorsed
by government laboratory as per specified
IEC standards for safety, EMI and performance.

APPROVED VENDOR FOR*



* A partial list.