NUMERIC®
A Group brand | legrand®

Keor T EVO

THREE-PHASE UPS
from 15 to 60 kVA

NEW ENERGY
TO POWER

Keor T EVO

THREE-PHASE UPS

Keor T EVO is an evolution of the successful Keor T range of UPS, that represents Legrand's philosophy of continuous innovation to address the changing needs of its customers. Keor T EVO has been designed with advanced technologies and latest generation components; 3 level IGBT rectifier and inverter with multi DSP controller.

It offers maximum protection and power quality for IT loads, light industrial and lighting loads. Moreover, Keor T EVO meets specific operational needs and performance parameters for key stakeholders like users and installers. Get the benefits of high-tech performance and ease of use with Keor T EVO.

Keor T EVO
40-60 kVA

Keor T EVO
15-20-30 kVA

Easy Installation

- Easy installation guaranteed by front access to all wiring connections.
- Availability of standard configurations with batteries or isolation transformer inside the UPS.
- Designed to easily connect an additional battery cabinet to obtain long back-up time.
- Standard internal backfeed protection which provides easy installation without additional cost in UPS supply switchboard.

0,32 m²
(EVO 30 kVA, 20')

0,54 m²
(EVO 60 kVA, 15')

PF=1 → VA=W

Keor T EVO is able to provide over 11% more active power than PF 0.9 UPS with same kVA Nominal power.

Reduction of Total Cost Ownership (TCO)

Thanks to its design features and the high level of efficiency (up to 96% thanks to 3-Level technology), there is a drastic reduction of TCO, even from the installation phase; the key factors that allow you to gain these advantages are:

- Transformerless Design
- High Efficiency due to 3 level IGBT topology
- Reduced dimensions and power use for air conditioning
- Low Output Total Harmonic Distortion (THDV)

Small Foot Print with Internal Batteries

Keor T EVO with internal batteries allows you to reach 60 kW with 15 minutes of backup time; this avoids the cost of an external battery cabinet, reduces the floor space and simplifies the installation.

Dual input

Keor T EVO UPS can be powered from two separate AC supply sources: the dual input configuration can be selected at installation by simply removing a linking connector from its input terminal.

Multicolor LED Bar

The LED bar is highly visible even from a distance, allowing instant visual communication of the UPS status. This allows significant time savings in the event of a failure or diagnosis and considerably reassures the user.

Keor T EVO

EASY MANAGEMENT

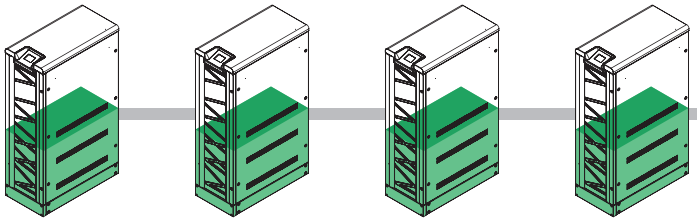
User friendly touch screen control panel

Keor T EVO is equipped with a touch screen graphic display that provides information, measurements, status and alarms of the UPS in different languages; the intuitive graphical icons allow you to browse through the various screens easily and quickly. In just a few steps you have access to all the operating parameters of the system.
You can also configure and set the parameters to adapt the UPS to various operating modes in order to optimize your critical load supply.

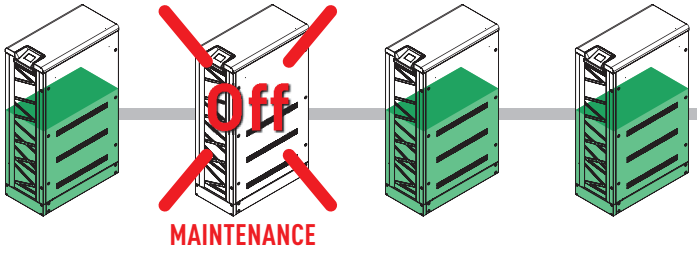
Scalable to increase the service continuity

The parallel connections between the UPS's allow different levels of redundancy hence the maximum continuity of service.

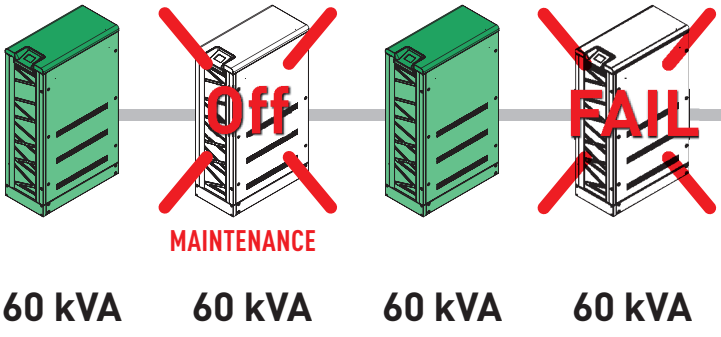
STANDARD WORKING CONDITION



AUTOMATIC LOAD RE-BALANCE IN MAINTENANCE CASE

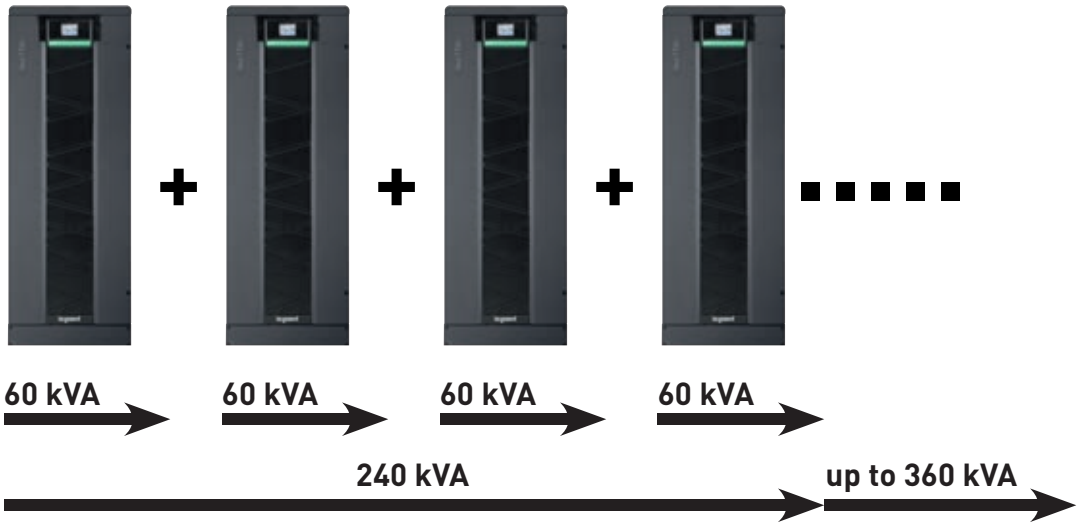


MAXIMUM AUTOMATIC LOAD BALANCE IN CASE OF FAILURE DURING MAINTENANCE



Parallelable to increase the power

Depending on the power demand, it is possible to connect Keor T EVO in parallel operation up to 6 units of the same power rating. This allows delivery of total power up to 360 kVA.



Keor T EVO

EXCLUSIVE CHARACTERISTICS

Internal battery up to 60 kVA

With battery pack installed inside the UPS cabinet, NO additional battery cabinets are needed, hence a smaller footprint.

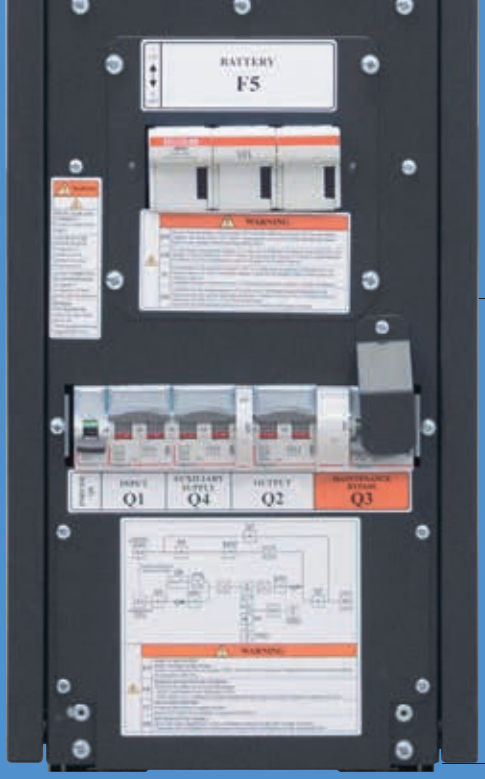
Safe and fast battery installation

The Battery drawers system allows:

- safe physical transport of battery and fast mounting on site
- safe and easy connection of individual battery strings outside of the cabinet
- lower UPS downtime for battery replacement.

Built-in Galvanic Isolation Transformer

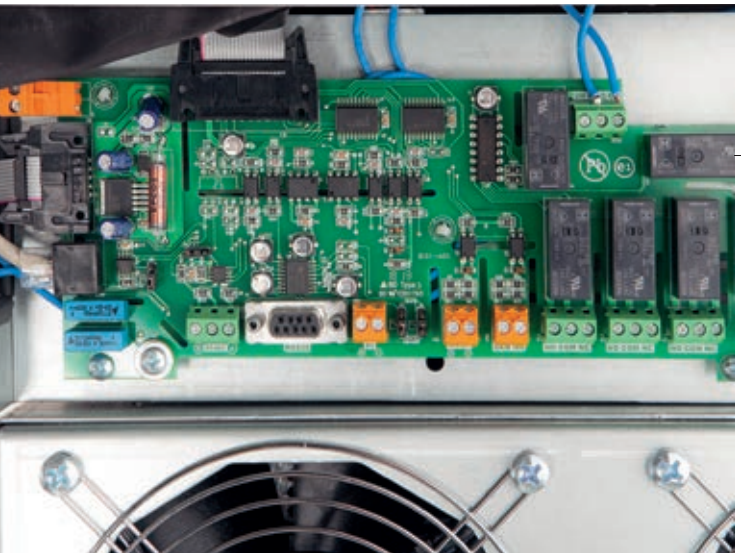
Optional isolation transformer in place of internal battery, reduces the foot print and thus saves space for installation.



Complete Distribution Panel with Embedded Manual bypass

Floor fixing kit for secure installations

Wheels for easy installation and maintenance



Communication features

- Standard RS232
- ModBus
- Programmable dry contacts
- EPO & GenSet and Remote Monitoring Panel
- USB Converter (optional)
- Internal SNMP solutions (optional)

KEOR T EVO

Conventional UPS - Three-phase On-line double conversion VFI

KEOR T 15-30

KEOR T EVO 40-60

Keor T EVO

Pack	Cat. Nos.	Nominal power kVA	Backup time (min)	Dimension H x W x D (mm)	Net weight (in kg)
1	3 110 24	15	0	1345 x 400 x 800	132
1	3 110 28	20	0	1345 x 400 x 800	134
1	3 110 32	30	0	1345 x 400 x 800	140
1	3 110 36	40	0	1650 x 600 x 900	255
1	3 110 40	60	0	1650 x 600 x 900	277

With inbuilt batteries

Pack	Cat. Nos.	Nominal power kVA	Backup time (min)	Dimensions H x W x D (mm)	Net weight (kg)
1	3 110 25	15	15	1345 x 400 x 800	267
1	3 110 30	20	15	1345 x 400 x 800	299
1	3 110 33	30	10	1345 x 400 x 800	305
1	3 110 38	40	15	1650 x 600 x 900	598
1	3 110 42	60	15	1650 x 600 x 900	770

With inbuilt isolation transformer

Pack	Cat. Nos.	Nominal power kVA	Backup time (min)	Dimensions H x W x D (mm)	Net weight (kg)
1	3 110 91	15	0	1345 x 400 x 800	222
1	3 110 92	20	0	1345 x 400 x 800	254
1	3 110 93	30	0	1345 x 400 x 800	270
1	3 110 94	40	0	1650 x 600 x 900	435
1	3 110 95	60	0	1650 x 600 x 900	507

Accessories

Pack	Cat. Nos.	Description
1	3 109 11	Battery drawers kit for Keor T EVO 10-30 kVA (up to 60 blocks 7-9 Ah)
1	3 109 12	Battery drawers kit for Keor T EVO 40-60 kVA (up to 60 blocks 7-9 Ah)
1	3 109 13	Internal battery cables kit for battery drawers Keor T EVO 10-30 kVA
1	3 109 14	Internal battery cables kit for battery drawers Keor T EVO 40-60 kVA
1	3 109 15	Parallal kit/UPS (PCB + 5m cable)*
1	3 109 16	Kit for both in & ext battery connections for 1345H*
1	3 109 30	CS 141 SK Professional (SNMP Only)
1	3 109 31	CS 141B SK Standard (SNMP with Sensor)
1	3 109 35	CS 141M SK Industrial (SNMP with MODBUS)
1	3 110 46	Parallal connection cable
1	3 110 47	Temperature probe

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

KEOR T EVO

Conventional UPS - Three-phase On-line double conversion VFI

Characteristics

Model	Keor T EVO 15	Keor T EVO 20	Keor T EVO 30	Keor T EVO 40	Keor T EVO 60
Nominal Power (kVA)	15	20	30	40	60
Active Power (kW)	15	20	30	40	60
General characteristics					
Technology	On-line double conversion VFI-SS-111				
Waveform	Sinusoidal				
Architecture	Stand Alone or Distributed Parallel up to 6 units				
Input Characteristics					
Input Voltage	Range: 242 - 459V at 50% load & 338V - 459V at full load				
Input Frequency	45-65 Hz				
Input Voltage Range (Ph-Ph)	318-459 V				
THD of input current	<5% at full load				
Compatibility with Diesel Generators	Yes				
Input power factor	>0.99				
Output characteristics					
Output Voltage	380, 400, 415V (3Ph+N+PE) (Adjustable from front panel)				
Efficiency	up to 96%				
Efficiency in ECO mode	up to 98,5%				
Output frequency (nominal)	50 /60 Hz (Adjustable from front panel)				
Output frequency tolerance	±0,1%Synch with Mains; ±0,01% Free Run				
Crest Factor	up to 3:1				
THD of output voltage	< 2% at full linear load				
Output power factor	1				
Output voltage tolerance	± 1%				
Overload Capability	10 min at 125%; 60 sec at 150%				
By-pass	Builtin Automatic and Mainteinance Bypass				
Batteries					
Battery type	VRLA – AGM Maintenance free				
Internal batteries	Yes				
Battery test	Yes Automatic or Manual				
Battery Recharge Profile	IU (DIN41773)				
Communication and management					
LCD Display	Touch screen, led bar status, live synoptic view for real time				
Communication Ports	RS232, GenSet, Programmable 4 Relay Contacts, ModBus				
Back Feed Protection	Internal Back Feed Protection Device is Standard				
Audible Alarm	Acoustic alarms and warnings				
Net Interface Slot	optional SNMP card				
Emergency Power Off (EPO)	Yes				
Remote Management	Available				
Physical characteristics					
Dimensions H x W x D (mm)	1345 x 400 x 800			1650 x 600 x 900	
Ambient conditions					
Operating temperature (°C)	0÷40				
Relative humidity (%)	20÷95% not condensing				
Protection index	IP20				
Noise at 1 m (dBA)	< 58			< 60	
Compliance					
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3				

Customer services

Reliable

Directly present in 250+ locations across India to ensure quick support, a team of 900 factory qualified engineers are available 24/7/365 to support your UPS system to ensure availability to the most critical loads.

Excellent

Numeric competitive edge lies in its ability to provide high value-added UPS systems and service for customers.
For Numeric, creating value means providing solutions with low energy consumption. The Legrand Group also provides all products required for electrical and digital building installations, particularly as an integrated system, with solution to fit customer needs.

Tailor-made

We offer a complete range of specific solutions and services to meet customer requirements:
- Technical pre-sales support
- UPS sizing and solution
- Supervision of installation, testing and commissioning.
- Operator training
- Site audits
- Warranty extension offers
- Annual maintenance contract

SERVICES

Today a business is in always ON mode with zero-tolerance for downtime. Numeric offers a wide range of products that promise seamless quality power solutions for all kinds of consumers – industrial, commercial and residential. The range of power solutions covers 3P, 2P and LI across power needs.

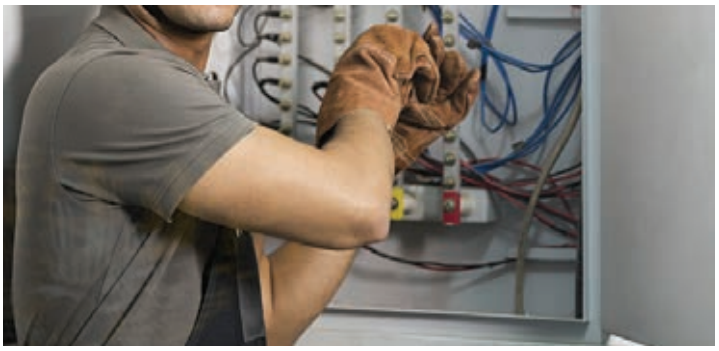
Support

SITE INSPECTION, INSTALLATION SUPERVISION.
Numeric UPS' safe and fault-free operations start at the time of installation. A team of technical experts from Numeric visit the UPS site to perform a comprehensive check of the environment. The site engineer or electrical contractor is informed of their recommendations. The installation is supervised by the Numeric technical team.

SITE TEST, COMMISSIONING.
After the installations, the UPS is subjected to rigorous site tests. The UPS is configured according to user's requirements and completely set-up before going live. After successful testing, the UPS is handed over with the installation report.

Training

TRAINING
On-site training is made available to ensure the safe and efficient operation of the equipment. Hands-on training for the client's engineers and technical team can be arranged at Numeric's plants



Maintenance

PREVENTIVE MAINTENANCE
Optimal performance of the UPS require regular preventive maintenance operations, with parts replaced when needed. Numeric offers Service Contracts with Preventive Maintenance that include cleaning, UPS measurements, functional tests, technical reports (optional), battery health check up and software upgrades.

CORRECTIVE MAINTENANCE, EMERGENCY CALL
Engineers and spare parts stocks have been strategically located to handle emergencies. A powerful diagnostic software helps engineers identify the fault quickly and ensure short MTTR (Mean Time To Repair). The diagnosis further helps corrective actions such as part replacement, adjustments to be performed and return the UPS system back to normal.

SCAN TO FIND OUR
NEAREST BRANCH

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