

TRIMOD HE UPS



MODULAR
3-PHASE UPS
from 10 to 80 kW

NEW ENERGY
TO POWER





POWER PARTNER

IN BUSINESS
CONTINUITY

- Over three decades of leadership
- Among top 3 UPS companies in India
- Active installation base of 1 million+ UPS systems*
- Largest pan-India service network
- 5 world-class manufacturing units





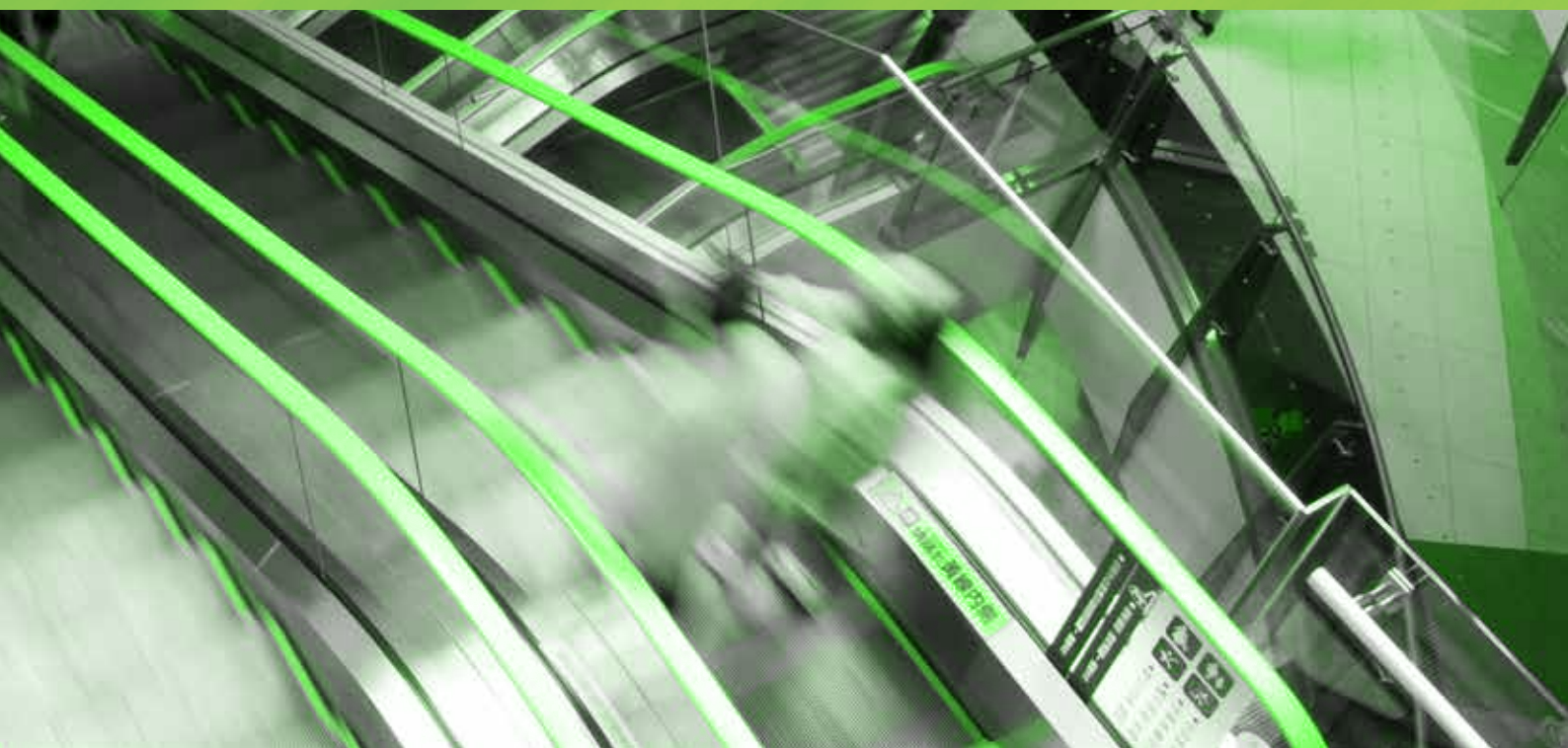
WHO WE ARE

We are the trusted, reliable power partner for mission critical applications across segments like IT, Healthcare, Banking, Telecom, Industries, Government, Retail, Research and Education to name a few. We help businesses optimize their productivity by providing seamless and clean power solutions with controlled environmental footprints. We provide complete peace of mind with five world-class manufacturing units and the largest pan-India sales and service network.

Being part of the Legrand Group since 2012, has given us the advantage of a truly GLOCAL company - global technological

expertise and strong local market insights. We are the single largest source for a wide range of power conditioning solutions built with the latest technology, one that is being constantly upgraded with technological advances to meet current market needs. Keeping our UPS' humming and your mission critical applications running is the largest and widest pan-India service network of 255 direct service centres, five manufacturing units in Chennai and Sinnar that have been certified for meeting ISO 9001:2015, ISO 14001:2015 and SA 8000:2008 OHSAS 18001:2007 standards and over 900 factory trained service professionals on the field.

*over one decade.



TRIMOD HE

HIGH performance
HIGH efficiency
LOW environmental impact

DEVELOPMENTS IN TECHNOLOGY

Legrand's modular UPS know-how goes back more than 20 years, when the first ever modular UPS were introduced in 1993. Since then, continuous firmware development and research on control and hardware components have led to no stop improvements in system reliability, quality and technical performance.

Continuous research combined with modern production methods has led Legrand to offer the market a cutting-edge, top-performing product: certified efficiency up to 96% and unity power factor.

Combining high density with a structural design that optimises the space, the new TRIMOD HE systems is the ideal solution for advanced energy management and cost containment.

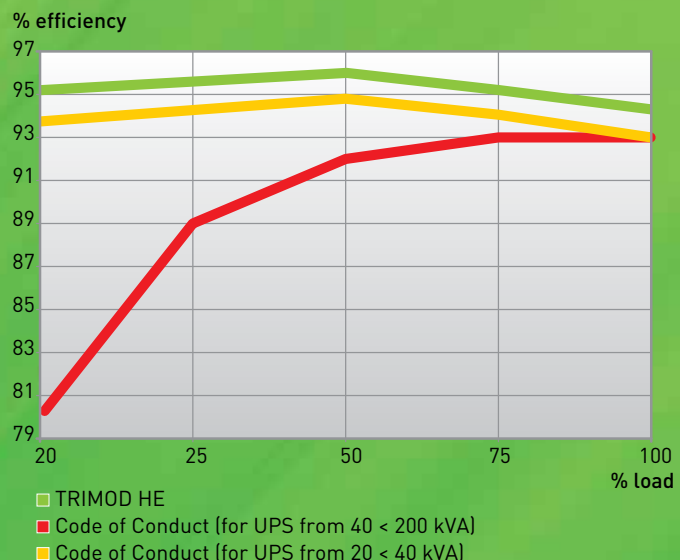


CERTIFIED EFFICIENCY

One of the highest values in the market

96%

The European Code of Conduct requires a minimum value of 92%. TRIMOD HE is up to 4% more efficient, thus effectively dividing by 2 all UPS energy losses.



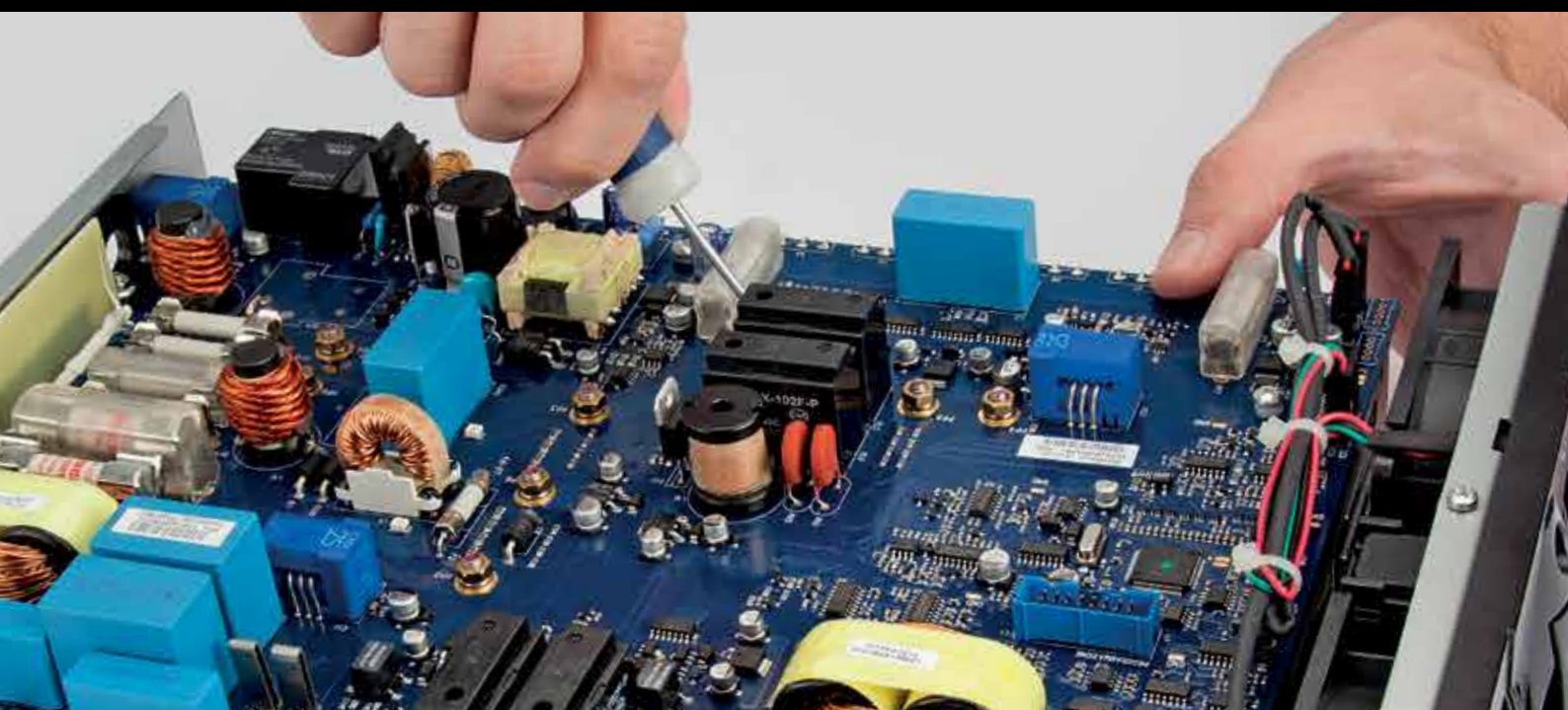


kVA = kW

POWER FACTOR 1

INCREASED POWER

Thanks to unity power factor the new TRIMOD HE UPS guarantee maximum real power; 11% more than competitor products offering 0,9 power factor.



TRIMOD HE

EXPANDABLE
SCALABLE
MODULAR
VERSATILE

The innovative concept of 3-PHASE modularity, consisting of INDIVIDUAL 1-PHASE MODULES

which feature in the entire TRIMOD HE range, allows you to optimise power availability, increase system flexibility and reduce the total cost of ownership (TCO).

The standardised structure, consisting of smaller and lighter modules, makes it easier to transport and install the UPS systems.

All the components are self-configuring and integrate a Plug&Play connection system to make all diagnostics, maintenance and future expansion phases easier.

Because the TRIMOD HE system is versatile and programmable, it is also possible to:

- supply 3 independent single-phase lines, assigning a different priority to each one, in terms of operating time
- offer 3 different input/output configurations in a single cabinet: 3/3, 1/1, 3/1, 1/3
- increase the duration of the average battery life thanks to the Smart Charging System



Compact, lightweight single-phase power module (only 8.5 kg)

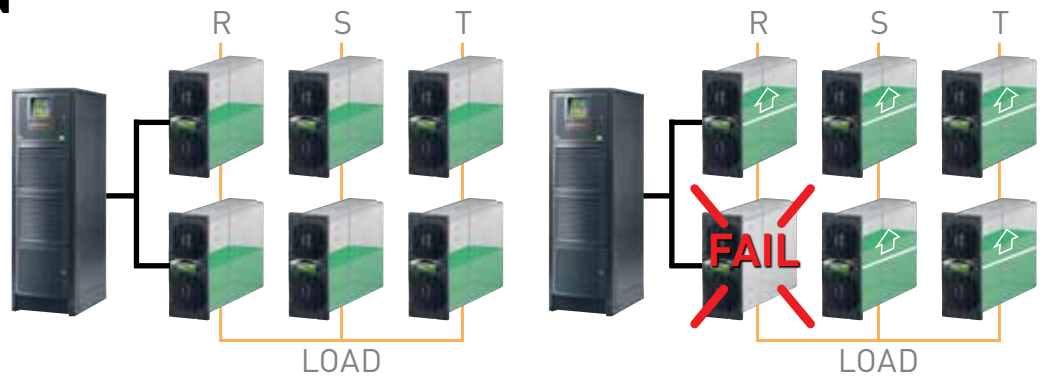


Easy to handle and install battery module (only 13 kg)



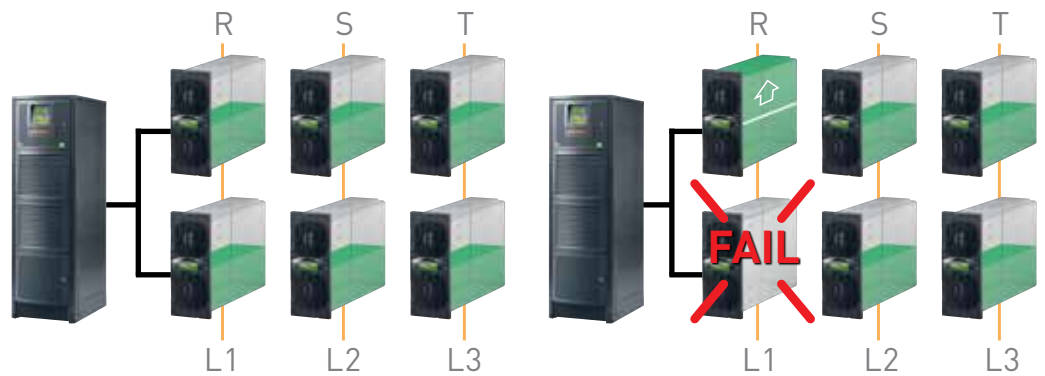
REDUNDANCY ON SINGLE-PHASE LOAD

In a system with a 3-phase power supply and a 1-phase load there will be no power loss if one of the modules fails, as the power will be delivered by the other operational modules.



REDUNDANCY ON THE PHASES

In a system with three independent outputs, it is possible to set the redundancy on the 1 phases. If one of the power modules fails, the modules in the same phase take over for the defective module.



HIGH LEVELS OF REDUNDANCY

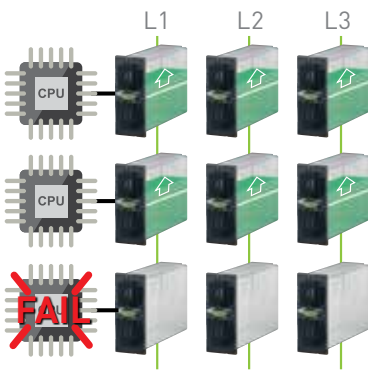
Thanks to the construction technology of the TRIMOD HE UPS systems, you can set various redundancy levels so that maximum continuity of service is always guaranteed.



TRIMOD HE

POWER CABINET WITH MULTI CONTROL BOARD

In order to increase service continuity and consequently decrease failures (limit the single point of failure) the new cabinet are provided with more control modules, from 1 to a maximum of 4, so as to ensure redundancy on control.



Redundancy on the control

In UPS systems incorporating several control modules, failure of one of the control boards results in the module it controls being switched off. However, continuity of service is assured by automatic distribution of the lost power over the other modules.

HOT-SWAP

Thanks to the multi control board system you can replace the power modules without switching off the UPS.

Separate batteries

The new multi control board cabinet, also allows you to associate each control a separate battery bank.



POWER CABINET WITH **DUAL INPUT** FUNCTION

TRIMOD HE, offers cabinet with power up to 80 kW and DUAL INPUT function. The new cabinet can be fed with two different AC sources. The configuration can be selected at installation time and easily obtained by removing a bridge in the input terminals.

POSSIBLE CONFIGURATIONS

SCALABLE SOLUTION
FROM 40 kW UP TO 80 kW

SCALABLE SOLUTION
FROM 60 kW UP TO 80 kW

REDUNDANCY SOLUTION
60 kW N+1



TRIMOD HE

Double conversion VFI three-phase modular UPS



Pack	Cat.Nos	Single input power cabinet without modules		
		Nominal Power (in kVA)	Weight (in kg)	Dimension (W x D x H) in mm
1	7204 107	10	85	414 x 628 x 1370
1	7204 108	15	90	414 x 628 x 1370
1	7204 109	20	90	414 x 628 x 1370
1	7204 110	30	80	414 x 628 x 1370
1	7204 111	40	80	414 x 628 x 1370
1	7204 112	60	90	414 x 628 x 1370

Pack	Cat.Nos	Dual input power cabinet without modules			
		Nominal Power (in kVA)	Weight (in kg)	Dimension (W x D x H) in mm	Control Boards
1	7204 121	10 KVA	86	414 x 628 x 1370	1
1	7204 122	15 KVA	89	414 x 628 x 1370	1
1	7204 123	20 KVA	89	414 x 628 x 1370	1
1	7204 124	30 KVA	85	414 x 628 x 1370	2
1	7204 125	40 KVA	82	414 x 628 x 1370	2
1	7204 126	60 KVA	91	414 x 628 x 1370	3
1	7204 127	80 KVA	120	414 x 628 x 1650	4

Pack	Cat.Nos	Accessories	
		Description	
1	7218 641	Power modules 3.4 kVA	
1	7218 642	Power modules 5 kVA	
1	7218 643	Power modules 6.7 kVA	
1	7218 644	Additional charger module	
		Communication Option	
		Description	
1	7218 631	CS 141 SK Professional (SNMP only)	
1	7218 632	CS 141 B SK Standard (SNMP with sensor)	
1	7218 633	CS 141 M SK Industrial (SNMP with modbus)	

TRIMOD HE

Double conversion VFI three-phase modular UPS

Characteristics

General specifications							
Nominal power (kVA)	10	15	20	30	40	60	80
Active power (kW)	10	15	20	30	40	60	80
Module power (kW)	3.4	5	6.7	5	6.7	6.7	6.7
Classification	On-Line double conversion VFI-SS-111						
System	Modular, expandable and redundant UPS system						
Input specifications							
Input voltage	380, 400, 415 3PH+N+PE (or 220, 230, 240 1PH)				380, 400, 415 3PH+N+PE		
Input frequency	45-65 Hz (43,0 ÷ 68.4 Hz)						
Input voltage range	400V +15%/-20% - 230V +15%/-20%				400V +15%/-20%		
THD input current	< 3% (at full load)						
Input power factor	> 0.99						
Output Specifications							
Output voltage	380, 400, 415 3F+N+PE (o 220, 230, 240 1F)				380, 400, 415 3F+N+PE		
Efficiency	Up to 96%						
Efficiency in Eco mode	99%						
Nominal output frequency	50/60 Hz selectable by the user ±2 % (standard), ±14 % (extended)						
Crest factor	3:1						
Waveform	Sinusoidal						
Output voltage tolerance	±1%						
THD output voltage	<1%						
Overload capacity	10 minutes at 115%, 60 seconds at 135%						
Bypass	Automatic bypass (static and electromechanical) and manual maintenance bypass						
Batteries							
Battery module	Plug & play						
Battery series type/voltage	VRLA - AGM / 240 Vdc						
Operating time	Configurable						
Battery charger	Smart charge technology. 3-stage advanced cycle						
Batteries separate configuration	no		yes			yes with kit	
Communication and management							
Display and signals	4 x 20-character lines, 4 menu navigation buttons, LED multi-colour status indicator, alarms and audio signals						
Communication ports	2 RS232 serial ports, 1 logical gate, 5 ports with dry contacts, 1 slot for interfaces						
Backfeed protection	NC/NO auxiliary contact						
Emergency Power Off (EPO)	Yes						
Remote management	Available						
Physical Specifications							
Height	1370	1370	1370	1370	1370	1650	
Width	414	414	414	414	414	414	
Depth	628	628	628	628	628	628	
Installed power modules	3	6	6	9	12		
Installable battery drawers as option	Up to 12	-	-	-	-		
Net weight kg	120	146	146	165	196		
Ambient Conditions							
Operating temperature/humidity	0 - 40°C / 0 - 95% non condensing						
Protection rating	IP21						
Maximum audible noise at 1 m from the unit (dBA)	58-62						
Conformity							
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3						
Certification	UE						



Customer services

Reliable

Directly present in 254 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 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.

With 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.

Head Office

10th Floor, Prestige Center Court,
Office Block, Vijaya Forum Mall, 183,
N.S.K Salai, Vadapalani,
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Regional Offices

New Delhi

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Phone : +91 11 26990028 / 29 / 30

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Bhakta Tower, Plot No. KB22,
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Sector - III, Kolkata - 700 098.
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Phone : +91 651 221 4071

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Near Iscon Circle, S G Highway,
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