# **LEVELUPS T3**











SERIES

**10-200** kVA 3:3



ONLINE UPS















#### **HIGHLIGHTS**

- True Three Level Rectifier and **Inverter Technology**
- Ultra High Output Galvanic Isolation Transformer Embedded
- Robust and Reliable Design

# Highest Reliability with **Embedded Isolation Transformer**

- LevelUps T3 Series is a true VFI on-line double conversion, three-phase UPS system with Innovative 3 Level Technology and engineered to provide high level of energy efficiency and reliable and robust protection for most demanding industrial and medical environments.
- Three level inverter and rectifier technology and with embedded isolation transformer makes LevelUps T3 Series one of the most reliable systems for data security and other critical applications.

#### **CERTIFICATES**















# Compact Design

- Designed with an Integrated transformer ensuring galvanic isolation on the output for ultimate safe installation.
- Easy to install and service and can be integrated into harsh commercial and industrial environments.
- Compact footprint and matching battery cabinets.

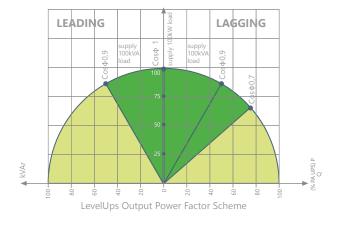


# Low Total Cost of Ownership

- Less energy consumption to supply the loads thanks to high efficiency.
- Reduced energy loss.
- Reduced electricity usage and air conditioning requirements.
- Reduction in operating cost of UPS.
- IGBT based power factor correction technology provides input power factor close to 1 (≥ 0,99). The high input power leads to reduced electricity pay-out, minimizes cable, switchboard, fuse and generator requirements, thus reducing investment cost.
- Low input current total harmonic distortion (THDi) less than%3 helps to avoid the disturbance and expensive harmonic filters.
- Small footprint and easy maintenance

# High Output Power Factor 1

- Output power factor of 1 (kVA=kW) rate provides up to 25% more active power than a traditional UPS.
- Suitable for modern power supply application with unit or capacitive power factor (e.g. new servers generation).
- No reduction in active power from 0,9 leading to 0,9 lagging.



# Maximum Availability

- Parallel configuration up to 8 units per redundancy (N+1) and power increase.
- Loop connection helps the UPS system to continue the operation when the connection cable is inturrupted.

### Standard Electrical Features

- Output Galvanic Isolation Transformer Embedded
- Dual Input
- Common Battery
- Frontal Access for Input/Output Cabling
- Backfeed Protection
- Cold Start (Optional)
- Advanced Battery Management
- Short Circuit and Overload Protection
- Parallel Ready
- Redundant Power Supply
- Power Walk-in for Progressive Rectifier Start-up when the Mains is Restored
- Battery Temperature Sensor
- Static & Manual Bypass Operation

#### **Advanced Communication Features**

- 500 Real Time Event Log with Detailed Parameters
- User Friendly Multilingual 320x240 Graphic Display Provides Operation Information
- Monitoring and Shutdown Software
- RS232 Serial and RS485 Ports
- Modbus RTU (Optional)
- 2 Communication Slots
- Remote Emergency Power Off (Optional)
- Remote Display Panel (Optional)
- Dry Contact (Optional)
- SNMP (Optional)
- Profibus (Optional)

#### Flexibility

- Optional IP31, IP41, Protection degree for harsh environments.
- Optional tropicalization and anti-corrosion protection for electronic boards.
- Optional temperature sensor for external battery cabinets for extended runtimes.
- External battery cabinets for different sizes of batteries to provide extended runtimes.
- Adaptability to the mains without neutral.





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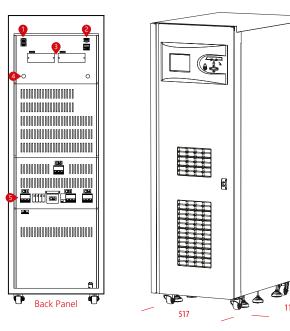
#### **DETAILS**

#### **LEVELUPS T3** SERIES 10-15-20 kVA

# 1001001100110110110110 100010011001100100100 1382 0 Back Panel 517

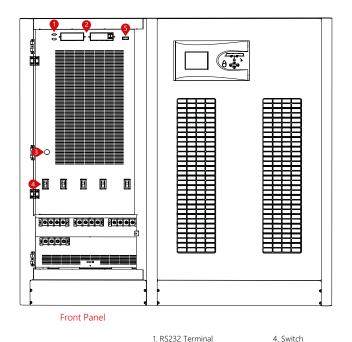
- 1. Parallel Port Terminal
- 2. RS232 Terminal
- 3. Optional Card Slots
- 4. DC Bus Ramping Up Button
- 5. Switch

#### **LEVELUPS T3** SERIES 30-40 kVA

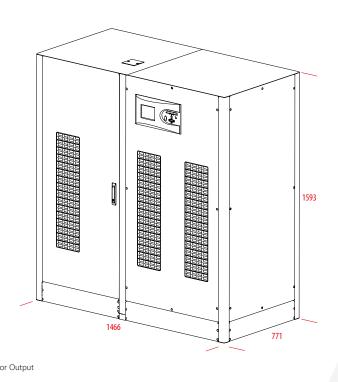


- 1. Parallel Port Terminal
- 2. RS232 Terminal
- 3. Optional Card Slots4. DC Bus Ramping Up Button

#### **LEVELUPS T3** SERIES **60-80** kVA



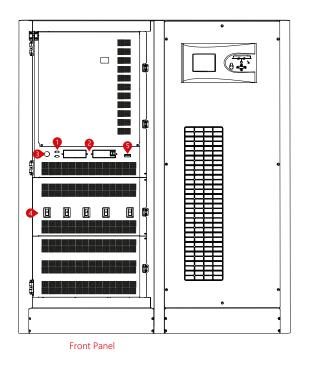
- 2. Optional Card Slots
- 3. DC Bus Ramping Up Button
- 5. External Temperature Sensor Output

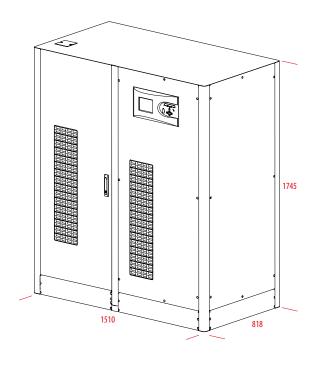




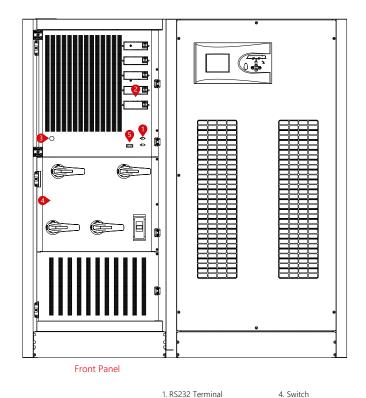
## **DETAILS**

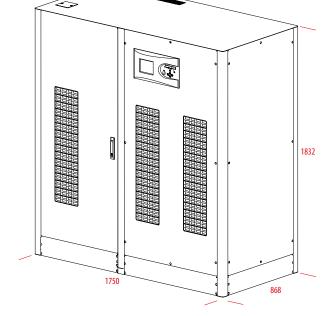
## **LEVELUPS T3** SERIES 100-120 kVA





# **LEVELUPS T3** SERIES 160-200 kVA





- 2. Optional Card Slots
- 3. DC Bus Ramping Up Button
- 4. Switch 5. External Temperature Sensor Output

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10-200 kVA 3:3

ONLINE UPS

MODEL													
Capacity		10kVA	15kVA	20kVA	30kVA	<b>40</b> kVA	60kVA	80kVA	100kVA	<b>120</b> kVA	160kVA	200kVA	
Power Watt		10kW	15kW	<b>20</b> kW	30kW	<b>40</b> kW	60kW	80kW	100kW	120kW	160kW	200kW	
NPUT			1			1			1001111	1	1		
Voltage Range				380/400	/415 VAC 3 I	Phase +N ((	Optional 220	)/380 VAC -3	37% +22% 3	P+N+PE)			
Power Factor		At Full Load >0.99											
Frequency Range		45 - 65 Hz (Selectable)											
Total Harmonic Distortion (THDi)		<3%											
OUTPUT	` '												
Voltage Range						380/400/	'415 VAC 3 I	Phase + N					
Voltage Tolerance		Static ±1, Dynamic ±3											
Efficiency		94.5%											
Frequency Tolerance						50Hz / 60H	z ±0,01% (B	attery Mode)					
						Liı	near Load <	2%					
THD (THDv)		Non-Linear Load <5%											
Crest Factor (CF)		3:1											
Overload Capacity*		At 125% Load 10min, at 150% Load 1min											
BATTERY													
Quantity (12V DC VRLA)		60											
Charge Capacity					12,5% c	of Active Pov	ver (Nomina	l 0,1 C10, Ad	ustable)				
ENVIRONMENTAL													
Operating Temperature		For UPS 0°C/+40°C For Battery +15°C/+25°C											
Storage Temperature		For UPS -15°C/+45°C For Battery 0°C/+30°C											
Protection Class		IP20											
Humidity		0-95% Without Condensation											
Altitude		<1000m, Correction Factor 1. <2000m, Correction Factor >0.92, <3000m; Correction Factor >0.84											
Noise Level		<53	dBA	<5.	5 dBA	dBA <60 dBA <65 dBA <72 dBA							
COMMUNICATION													
Communication Port					RS232	Standart, RS	485 and SN	MP Adapter	Option				
STANDARDS													
Quality		ISO 9001, ISO 14001, ISO 18001, TSE-HYB											
Performance		EN62040-3 (VFI-SS-111, Bureau Veritas Certified)											
EMC/LVD		EN62040-2, EN62040-1, EN60950, (TÜV SÜD Certified)											
DIMENSIONS & WEI	GHT												
Cabinet Dimensions (mm)	Width	517		517		1466		1510		1750			
	Depth	862,1		1130		771		818		868			
	Height	1382		1630		1593		1745		1832			
Net Weight (kg)		342	345	350	343	452	785	860	935	996	1189	1258	
Packaging Dimensions (mm)	Width	670		620		1580		1580		1930			
	Depth	900		1180		870		870		970			
	Height	1630			1830		1980		1980		2120		
Gross Weight (kg)		367	370	375	403	512	855	930	1005	1066	1269	1338	

<sup>\*</sup> under certain conditions.

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