POWERLEVEL T3 SERIES
10-200 kVA 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
• PowerLevel 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 PowerLevel T3 Series one of the most reliable systems for data security and other critical applications.

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

LOW TOTAL COST OF OWNERSHIP
• Less energy consumption thanks to high efficiency.
• Reduced energy loss.
• Reduced electricity consumption 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 lower electricity charges/costs, reduces cable, switchboard, fuse and generator sizes, thus reducing investment cost.
• Low input current total harmonic distortion (THDi) less than 3% helps to avoid supply 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 continue operation when the connection cable is interrupted.

STANDARD ELECTRICAL FEATURES

- Embedded Output Galvanic Isolation Transformer
- Dual Input
- Common Battery option
- 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 320 x 240 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.
POWERLEVEL T3 SERIES
10-200 kVA
ONLINE UPS

DETAILS

POWERLEVEL T3 SERIES 10-15-20 kVA

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

POWERLEVEL T3 SERIES 30-40 kVA

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

POWERLEVEL T3 SERIES 60-80 kVA

1. RS232 Terminal
2. Optional Card Slots
3. DC Bus Ramping Up Button
4. Isolation Breaker
5. External Temperature Sensor Output

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POWERLEVEL T3 SERIES
10-200 kVA
ONLINE UPS

DETAILS

POWERLEVEL T3 SERIES 100-120 kVA

Front Panel

1. RS232 Terminal
2. Optional Card Slots
3. DC Bus Ramping Up Button
4. Isolation Breaker
5. External Temperature Sensor Output

POWERLEVEL T3 SERIES 160-200 kVA

Front Panel

1. RS232 Terminal
2. Optional Card Slots
3. DC Bus Ramping Up Button
4. Isolation Breaker
5. External Temperature Sensor Output

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### INPUT
- **Voltage Range**: 380/400/415 VAC 3 Phase + N (Optional 220/380 VAC -37% +22% 3P+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 Phase + N
- **Voltage Tolerance**: Static ±1, Dynamic ±3
- **Efficiency**: 94.5%
- **Frequency Tolerance**: 50Hz / 60Hz ±0.01% (Battery Mode)
- **THD (THDv)**: Linear Load < 2% / 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% of Active Power (Nominal 0.1 C10, Adjustable)

### ENVIRONMENT
- **Running 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, <55 dBA, <60 dBA, <65 dBA, <72 dBA

### COMMUNICATION
- **Communication Port**: RS232 Standard, RS485 and SNMP Adapter Option

### STANDARDS
- **Quality**: EN 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)