HIGH EFFICIENCY & LOW TOTAL COST OF OWNERSHIP

- Less energy consumption to supply the loads thanks to high efficiency up to 96%.
- 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 charge/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.

INNOVATIVE 3 LEVEL TECHNOLOGY

- PowerLevel Series UPS with Innovative 3 Level Technology is a true on-line double conversion, three-phase UPS system that provides one of the highest level energy efficiencies in the industry.
- Three level inverter & rectifier design PowerLevel Series brings the newest power conversion technology and delivers efficiency up to 96% at 50-75% load operation which is the most common operating range.

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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
- Dual Input
- Common Battery
- Backfeed Protection
- Cold Start
- 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
- 2 Communication Slots
- Remote Emergency Power Off (Optional)
- Remote Display Panel (Optional)
- Dry Contact (Optional)
- SNMP (Optional)
- ProfiBUS (Optional)

FLEXIBILITY
- Optional temperature sensor for external battery cabinets for extended runtimes.
- External battery cabinets for different sizes of batteries to provide extended runtimes.
- Different sizes of 10-40kVA cabinets for larger capacity of internal batteries when long autonomy times are required.
- 3/1 Phase version is available for 10-30kVA power ratings.
- Frequency converter mode.
- Isolation transformers to vary neutral connectivity in the event of separate power sources or for galvanic isolation between input and output.
- Compatible version with EN 50171 for supplying power to emergency lighting systems.
POWERLEVEL SERIES
10-1000 kVA
ONLINE UPS

DETAILS

POWERLEVEL SERIES 10-40 kVA

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

POWERLEVEL SERIES 100-120 kVA

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

POWERLEVEL SERIES 60-80 kVA

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

POWERLEVEL SERIES 160-200-250 kVA

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

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LEVELUPS SERIES
500 kVA
LEVELUPS SERIES
800-1000 kVA

Front Panel

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

LEVELUPS SERIES
300-400-600 kVA
LEVELUPS SERIES
600-800-1000 kVA

Front Panel

1. RS232 Terminal
2. External Temperature Sensor Output
3. Optional Card Slots
4. DC Bus Ramping Up Button
5. Switch
6. Optional Modbus
### POWERLEVEL SERIES 10-1000 kVA

#### ONLINE UPS

## MODEL

<table>
<thead>
<tr>
<th>Capacity</th>
<th>10kVA</th>
<th>15kVA</th>
<th>20kVA</th>
<th>30kVA</th>
<th>40kVA</th>
<th>60kVA</th>
<th>80kVA</th>
<th>100kVA</th>
<th>120kVA</th>
<th>160kVA</th>
<th>200kVA</th>
<th>250kVA</th>
<th>300kVA</th>
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<th>500kVA</th>
<th>600kVA</th>
<th>800kVA</th>
<th>1000kVA</th>
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</thead>
<tbody>
<tr>
<td>Power Watt</td>
<td>10kW</td>
<td>15kW</td>
<td>20kW</td>
<td>30kW</td>
<td>40kW</td>
<td>60kW</td>
<td>80kW</td>
<td>100kW</td>
<td>120kW</td>
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<td>500kW</td>
<td>600kW</td>
<td>800kW</td>
<td>1000kW</td>
</tr>
</tbody>
</table>

#### INPUT

| Nominal Voltage | 400 VAC 3-Phase + N |
| Voltage Tolerance | -20% + 15% |
| Frequency Tolerance | 50 / 60 Hz ± 10% (Selectable) |
| Power Factor | >0.99 |
| Total Harmonic Distortion | THDI <3% |

#### OUTPUT

| Power Factor | 1.0 | 0.9 (1 Optional) |
| Nominal Voltage | 380/400/415 VAC 3-Phase + N |
| Voltage Tolerance | Static ± 1, Dynamic ± 3 |
| Frequency Tolerance | 50Hz / 60Hz ± 0.01% (Battery Mode) |
| Output THD | Linear Load <1% / Non Linear Load <3% |
| Crest Factor | 3:1 |
| Overload Capacity* | At 125% Load 10min, at 150% Load 1min |
| Efficiency (Online Mode) | 96% |
| Efficiency (Eco Mode) | Up to 99% |

#### BATTERY

| Type | VRLA / GEL / NiCD / Li-ion |
| Quantity (12V DC RFLA) | 60 |
| Charge Value (C) | 12.5% of Active Power (Nominal 0.1 C, Adjustable) |
| Recharge Time | 5 hours |
| Internal Battery | 64 x 7Ah or 9Ah |
| External Battery Pack | 64 x 7Ah or 9Ah |

#### ENVIRONMENT

| Running Temperature | For UPS 0°C~40°C for Battery 0°C~25°C |
| Storage Temperature | For UPS 15°C~45°C for Batteries -10°C~60°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, <74 dBA, <75 dBA |

#### COMMUNICATION

| Communication Port | RS232 Standard, RS485 and SNMP Adapter Option |

#### STANDARDS

| Quality | RS232 Standard, RS485 and SNMP Adapter Option |
| Performance | EN62040-3 (VFI-SS-111, Bureau Veritas Certified) |
| EMC/LVD | EN62040-2 / EN62040-1 / EN60950, (TÜV SÜD Certified) |

#### DIMENSIONS & WEIGHT

| Cabinet Width (mm) | 490 | 763 | 810 | 830 | 1250 | 2345 |
| Cabinet Depth (mm) | 805 | 771 | 820 | 870 | 845 | 485 |
| Cabinet Height (mm) | 1190 | 1555 | 1705 | 1800 | 2102 | 2003 |
| Net Weight (kg) | 100 | 100 | 107 | 118 | 125 | 260 | 270 | 350 | 355 | 450 | 460 | 470 | 850 | 850 | 850 | 1740 | 1740 |
| Gross Weight (kg) | 100 | 100 | 107 | 118 | 125 | 260 | 270 | 350 | 355 | 450 | 460 | 470 | 850 | 850 | 850 | 1740 | 1740 |

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*under certain conditions
* 3 Phase in / 1 Phase Out Version is Available (10 to 30kVA)