MTN-eLite Series
Single Phase UPS from 6 - 20 kVA

Product

MTN-Elite UPS is designed and built using state-of-the-art technology and components to provide maximum protection to the powered loads with no impact on downstream systems and optimised energy savings. The series includes 6-20 kVA single/single phase models with on-line double conversion technology (VFI) with latest three level technology. The load is powered continuously by the inverter which supplies a sinusoidal voltage, filtered and stabilised in terms of form and frequency. Input and output filters provide significant further immunity from mains disturbances and lightning strikes.

In terms of technology and performance, MTN-Elite is one of the best UPS available on the market today: three level inverter to achieve 95% efficiency at half load, output power factor 1 to increase in efficiency of system and devices and reduce power system losses.

Features

Three level Technology, Compact and Robust, MTN-elite monoline is the perfect UPS to protect and supply loads in the industrial fields and critical applications.

- Three Level Technology
- On Line Double Conversion Technology (Class VFI-SS-111)
- IGBT PWM Rectifier & Inverter Technology
- High Efficiency up to 95.5%
- Higher efficiency with eco mode up to 98%
- High Input Power Factor (>0.99)
- Low Input THD (≤%5)
- Increase battery life time up to 35% with smart charger
- Temperature compensation battery charging
- Higher fan file time with Intelligent fan speed control
- Operate as frequency converter (50 Hz / 60 Hz)
- Short Circuit, Overload, Lightning and Surge Protection
- Perfect Generator Compatibility
- Easy Service with Manual bypass
- Variable input low voltage depending on loading percentage (up to -40%)
- Parallelable with Common or Separate Battery Cabinet
- Realtime warnings at LCD screen
<table>
<thead>
<tr>
<th>Model</th>
<th>MTN-e1106</th>
<th>MTN-e1110</th>
<th>MTN-e1115</th>
<th>MTN-e1120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal power (kVA)</td>
<td>6</td>
<td>10</td>
<td>15</td>
<td>20</td>
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</tbody>
</table>

**General Specs**

- Technology: Three Level On-Line double conversation VFI-111
- Waveform: Sinusoidal
- Architecture: Stand Alone or Optional Parallel

**Input**

- Input voltage: 220, 230, 240 V 1PH+N+PE
- Input frequency: 45-65 Hz
- Voltage Tolerance (%100 load): (-20)% (+20)%
- Voltage Tolerance (%50 load): (-40)% (+20)%
- Input Power Factor: >0.99
- Input Current Harmonic: ≤5%

**Output**

- Output voltage: 220, 230, 240 V 1Ph+N+PE (Adjustable from front panel)
- Output Voltage Tolerance: ±1%
- Overall Efficiency (AC-AC): Up to 95.5 % (At half load)
- Ecomode Efficiency: Up to 98.5%
- Nominal Output Frequency: 50/60Hz +0.01 free run (Adjustable from LCD Panel)
- Crest Factor: 3:1
- Output Power Factor: 1.0
- THD of Output Voltage: <2% (at full linear load)

**Bypass**

- Overload Capability: 150% for 1 minutes
- Bypass: Built in Automatic and Maintenance Bypass
- Voltage Tolerance: ±10%

**Battery**

- Battery Type: VRLA-AGM / GEL / NiCd / Li-ion
- Battery Test: Automatic or Manual
- Battery Recharge Time: <6h-8h

**Charger Capacity**

- Standard Model (max): 1A / 4A
- with Charger Option: 4A / 13A

**Battery Quantity**

- with Internal Battery (12V 7/9Ah): 20 pcs / 28 pcs
- External Cabinet with 4A Charger Option: 20-40 pcs (Default 30 pcs) / 30-40 pcs (Default 30 pcs)
- External Cabinet with 13A Charger Option: 30-46 pcs (Default 30 pcs)

**Communication and Accessories**

- LCD Display: Graphical LCD screen, Led bar status
- Communication ports (Optional): RS485, Genset, SNMP, GSM Modem, Relay Contacts, Input Contacts, Modbus and USB
- Accessories (Optional): Galvanic Isolation Transformer, Remote Monitoring Panel

**Physical Characteristics**

- Dimensions H x W x D (mm): 635X256X580 / 735X256X673
- Net Weight (kg): 30 / 38 / 40 / 50

**Ambient Conditions**

- Operating temperature: (+°C) 0°C - 40°C
- Storage temperature: -15°C~ 55°C
- Relative Humidity (%): < 95% not condensing
- Noise (at 1 meter): < 55 dBA
- Protection Class: IP 20

**Compliance**

- Reference Product: Standards EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)