

# NTL

**THREE PHASE 10KVA : 520KVA**

The new NTL range uses the modular 19" rack drawer technology and was created to guarantee the best quality and reliability of service.



Each power module works in a "decentralized parallel" with the others, and the complete system autonomously divides the input load.



In the event of a failure of one of the modules, it is automatically excluded (decentralized parallel), thus ensuring a seamless power supply with the remaining modules.



Among the strengths of the NTL modular range we have a system efficiency > 95% (high efficiency), a reduction in repair times and service costs of less than 30' and the centralization of the static switching system that gives greater guarantees.

We recommend the use of the NTL series for Data Centers, Banks, Hospitals, Airports, Emergency Lights and any Industrial application.

Technical data and images may be subject to a change without notice



Display LCD touch screen

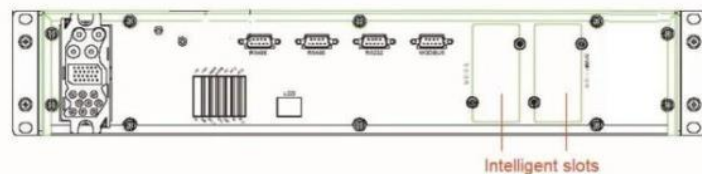
#### MAIN FEATURES

- Input power factor 0.99
- Harmonic input distortion <2%
- Centralized control display, which allows you to check at any time, (even by removing a single module) the actual power and data related to all modules.
- EPO function
- Display LCD touch screen

#### COMMUNICATION PORTS:

- 1x RS232 – 2x Rs485
- 1x MODBUS PORT
- 1x CLEAN CONTACTS
- 2x COMMUNICATION SLOT

- The modules use the latest generation of DSP microprocessors, in this way the components are reduced and reliability is increased.



Communication ports

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| FRAME (Cabinet)                  |                           |              | 150                                                                                                                                                                          | 200           | 250    | 300    | 200              | 320              | 520               |       |
|----------------------------------|---------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|--------|------------------|------------------|-------------------|-------|
| Power                            | system (KVA)              |              | 10~150                                                                                                                                                                       | 10~200        | 25~250 | 25~300 | 40~200           | 40~320           | 40~520            |       |
|                                  | Module (KVA)              |              | 10/15/20/30                                                                                                                                                                  | 10/15/20      | 25     | 25/30  | 40               |                  |                   |       |
|                                  | Module (KW)               |              | 9/13.5/18/27                                                                                                                                                                 |               |        | 22.5   | 22.5/27          | 36               |                   |       |
|                                  | Maximum Number of Modules |              | 5                                                                                                                                                                            | 10            | 10     | 10     | 5                | 8                | 13                |       |
| Input                            | Phases                    |              | 3 Phases + Neutral + GND                                                                                                                                                     |               |        |        |                  |                  |                   |       |
|                                  | Rated Voltage             |              | 380/400/415Vac                                                                                                                                                               |               |        |        |                  |                  |                   |       |
|                                  | Voltage Range             |              | 208~478Vac                                                                                                                                                                   |               |        |        |                  |                  |                   |       |
|                                  | Frequency Range           |              | 40Hz-70Hz                                                                                                                                                                    |               |        |        |                  |                  |                   |       |
|                                  | Power factor              |              | ≥0.99                                                                                                                                                                        |               |        |        |                  |                  |                   |       |
|                                  | Bypass Voltage Range      |              | 380V: +25% (optional +10%,+15%,+20%) 400V: +20%(optional +10%,+15%) 415V: +15%(optional +10%)<br>Minimum voltage: -45% (optional -20%,-30%) Frequency protection range: ±10% |               |        |        |                  |                  |                   |       |
|                                  | Genset input              |              | Supported                                                                                                                                                                    |               |        |        |                  |                  |                   |       |
|                                  | Current THDi              |              | ≤3% (100% non-linear load)                                                                                                                                                   |               |        |        |                  |                  |                   |       |
| Output                           | Phases                    |              | 3 Phases + Neutral + GND                                                                                                                                                     |               |        |        |                  |                  |                   |       |
|                                  | Rated Voltage             |              | 380/400/415Vac (factory setting)                                                                                                                                             |               |        |        |                  |                  |                   |       |
|                                  | Power factor              |              | 0.9                                                                                                                                                                          |               |        |        |                  |                  |                   |       |
|                                  | Voltage Regulation        |              | ±1%                                                                                                                                                                          |               |        |        |                  |                  |                   |       |
|                                  | Frequency                 | Mains mode   | ±1%, ±2%, ±4%, ±5%, ±10% of nominal frequency (optional)                                                                                                                     |               |        |        |                  |                  |                   |       |
|                                  |                           | Battery mode | (50/60±0.2%) Hz                                                                                                                                                              |               |        |        |                  |                  |                   |       |
|                                  | Crest factor              |              | 3:1                                                                                                                                                                          |               |        |        |                  |                  |                   |       |
|                                  | THD                       |              | ≤2% with linear load                                                                                                                                                         |               |        |        |                  |                  |                   |       |
|                                  |                           |              | ≤5% with non-linear load                                                                                                                                                     |               |        |        |                  |                  |                   |       |
| Efficiency (in normal mode)      |                           |              | 95.5%                                                                                                                                                                        |               |        |        |                  |                  |                   |       |
| Battery                          | Voltage                   |              | ±192V\±204V\±216V\±228V\±240V DC; N. of battery (optional)                                                                                                                   |               |        |        |                  |                  |                   |       |
|                                  | Recharge current          | Cabinet      | 30A max                                                                                                                                                                      | 100A max      |        |        |                  |                  | 130A max          |       |
|                                  |                           | Module       | 10/15/20KVA=6A Max 30/40KVA=10A Max.<br>Recharge current can be set according to number of battery installed                                                                 |               |        |        |                  |                  |                   |       |
| Protection                       | Overload                  | Normal mode  | Load≤110%: Duration 60min, ≤125%: duration10min, ≤150%: duration 1min<br>≥150% immediately shuts down the system                                                             |               |        |        |                  |                  |                   |       |
|                                  |                           | Battery mode | Load≤110%:duration 10min, ≤125%:duration 1min, ≤150%:duration 10s, ≥150% turn off UPS immediately                                                                            |               |        |        |                  |                  |                   |       |
|                                  |                           | Bypass mode  |                                                                                                                                                                              |               |        |        |                  | 400 A            | 500 A             | 800 A |
|                                  | Fuses                     | Input        | -                                                                                                                                                                            |               |        |        |                  | 120 A            |                   |       |
|                                  |                           | Output       |                                                                                                                                                                              |               |        |        |                  | 200 A            |                   |       |
|                                  | Short circuit             |              | Involves the entire UPS                                                                                                                                                      |               |        |        |                  |                  |                   |       |
|                                  | Overheating               |              | Normal mode: switch to bypass / Battery mode: Shut down the system immediately                                                                                               |               |        |        |                  |                  |                   |       |
|                                  | Battery discharged        |              | Alarm and turn off the UPS                                                                                                                                                   |               |        |        |                  |                  |                   |       |
|                                  | Self-test                 |              | At UPS startup and via SW command                                                                                                                                            |               |        |        |                  |                  |                   |       |
|                                  | EPO (optional)            |              | Shut down the system immediately                                                                                                                                             |               |        |        |                  |                  |                   |       |
|                                  | Noise suppression         |              | Complies with EN62040-2                                                                                                                                                      |               |        |        |                  |                  |                   |       |
| Communication interface          |                           |              | RS232, RS485, Clean Contacts, Smart Slot, SNMP Card (Optional), Relay Card (Optional)                                                                                        |               |        |        |                  |                  |                   |       |
| Environment                      | Operating temperature     |              | 0°C~40°C                                                                                                                                                                     |               |        |        |                  |                  |                   |       |
|                                  | Storage temperature       |              | -25°C~55°C                                                                                                                                                                   |               |        |        |                  |                  |                   |       |
|                                  | Humidity                  |              | 0%~95% non-condensing                                                                                                                                                        |               |        |        |                  |                  |                   |       |
|                                  | Altitude                  |              | < 1500m                                                                                                                                                                      |               |        |        |                  |                  |                   |       |
| Various                          | FRAME size (PxLxH) mm     |              | 840x600<br>x1400                                                                                                                                                             | 1100x600x2000 |        |        | 860x600<br>x1600 | 860x600<br>x2000 | 860x1200<br>x2000 |       |
|                                  | MODULE Dimensions (PxLxH) |              | 580x443x131 mm                                                                                                                                                               |               |        |        |                  |                  |                   |       |
|                                  | Weight (Kg)               | Cabinet      | 150                                                                                                                                                                          | 312           |        |        | 205              | 310              | 450               |       |
|                                  |                           | Module       | 30KVA=33Kg                                                                                                                                                                   |               |        |        |                  |                  |                   |       |
| Complies with safety regulations |                           |              | EC,EN/IEC 62040-2,EN/IEC 62040-1-1                                                                                                                                           |               |        |        |                  |                  |                   |       |

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