

# **NOVA**

## 10-40 kVA threephase UPS





**GTEC NOVA**  
10-40 kVA threephase UPS

There's a new star in the horizon.

The brightest star  
in the 3-phase stand alone UPS universe.

**Last generation technology**

**Cutting-edge architecture**

**Top-of-the-class performance**

**Maximum autonomy**

GTEC is pleased to present you  
**NOVA**





Overview



Architecture



Display and functionalities



Security and reliability



Battery compartment



## Overview

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10-40 kVA threephase UPS



- **5 power sizes** available, up to 40 kVA
- **Power Factor 1**
- **Efficiency >96%** in Normal Mode
- Up to 4 internal battery strings
- **Parallel operation** up to 4 units

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## Architecture (front)

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- The cabinet is compact shaped and really **small sized** compared to other threephase UPS with internal batteries.



**-15%**

Compared to the average volume of a threephase UPS with internal batteries



## Architecture (front)



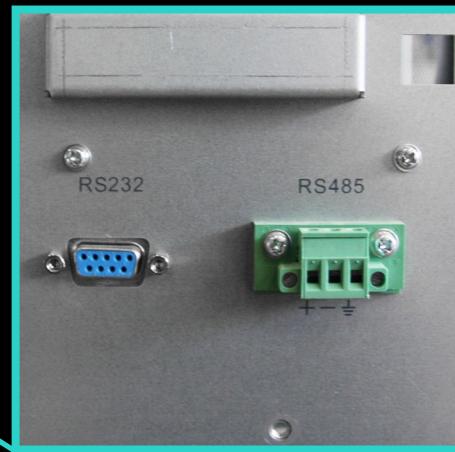
**GTEC NOVA**  
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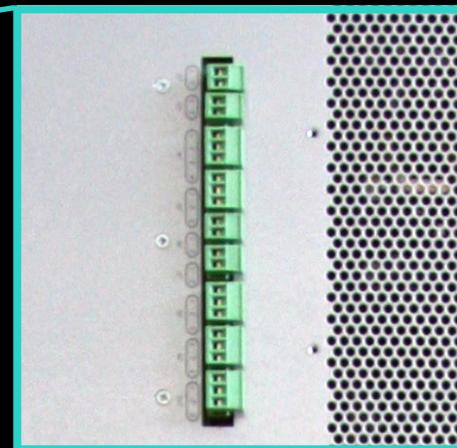
- The sophisticated **Hot Swap design** allows fast and easy access to all main components, fans included.



### RS232/485 PORTS

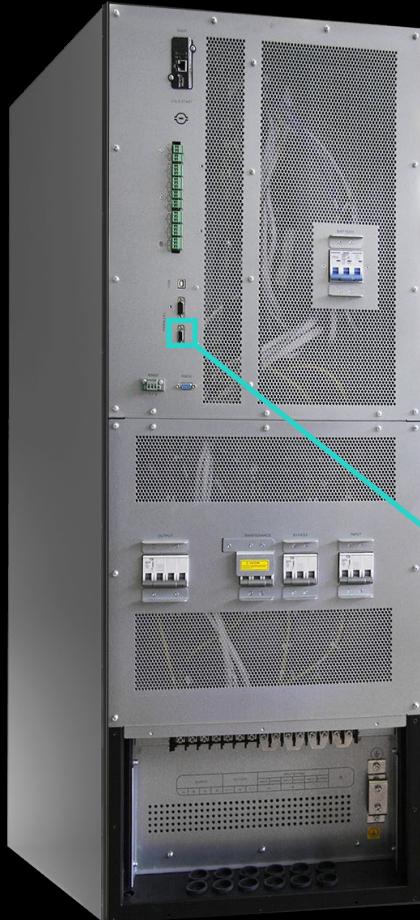
The serial communication interface connects the UPS with a computer, in order to manage setting or monitoring operations





### DRY CONTACTS

A board is supplied as standard  
To remotely control the status of the UPS  
or other selectable events



### PARALLEL KIT

It is possible to connect up to 4 units in parallel, so as to adapt the supplied power to the needs of the load, as well as to avail of the redundancy function





### BATTERY BREAKER

The switch allows the internal batteries to be disconnected in order to carry out maintenance operations in total safety



### TERMINAL BLOCK

Protected by the special Plexiglas shield, the terminal block is designed for quick connections and comes equipped with bridges for double inputs

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## Display and functionalities

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- **5,6" colour LCD Touch Screen**, very intuitive and easy to use
- It's possible to setup **6 different languages**, available at the same time
- The **initial installation** can be done directly by display without the need to utilise any auxiliary device.



## Display and functionalities

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NOVA is equipped with a **professional setting software**, common to the most advanced GTEC modular technology UPS.

The software offers an extensive range of **analysis and setting functions**, most of which can also be accessed directly via the intuitive colour LCD Touch Screen. The range of information includes:



- **Alarm log and register**
- A counter showing the **battery discharge time** and **total working time**
- Two-level **battery tests**
- **Fans operating time**
- Instantaneous **power level measurement of the load** (in kW, kVA and kVar)
- Operating parameters

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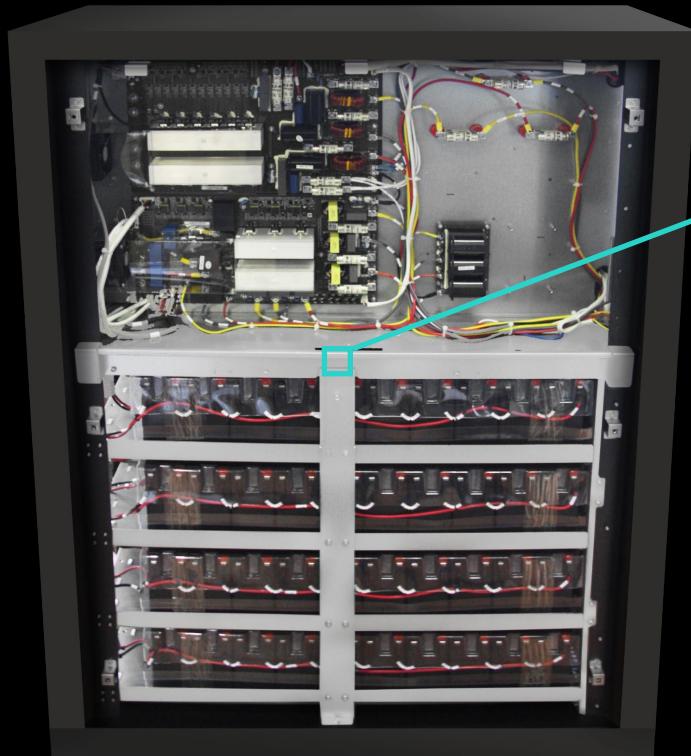
## Security and reliability

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10-40 kVA threephase UPS

Each internal NOVA component is **perfectly sized** to ensure that the system always works at maximum capacity, in any operating condition.

Then there are many specific features integrated as standard in order to ensure the **maximum security and reliability** of the UPS.



### BATTERY COMPARTMENT ISOLATION

The cabinet has a special integrated metal wall that physically separates the electronic section from the battery area, so to guarantee the maximum isolation of the elements.



## Security and reliability

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10-40 kVA threephase UPS



### POLYURETHANE DRAWERS

NOVA is equipped with additional polyurethane safeguards integrated into the exclusive battery boxes.

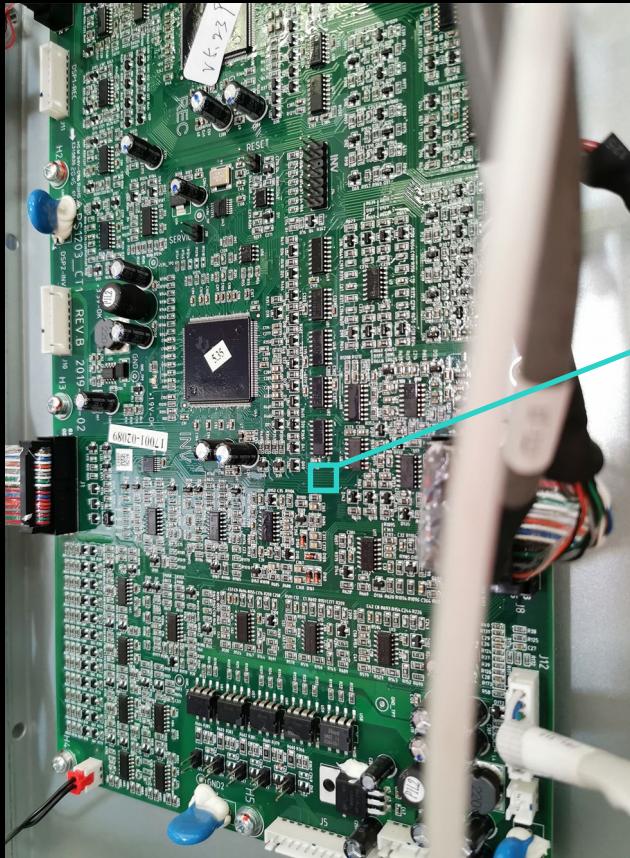
These particular trays, in addition to making the batteries handling quick and easy, serve to protect the machine and isolate the battery strings so as to avoid the risk of accidental contacts or acid leaks.



## Security and reliability

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### COATED PCB

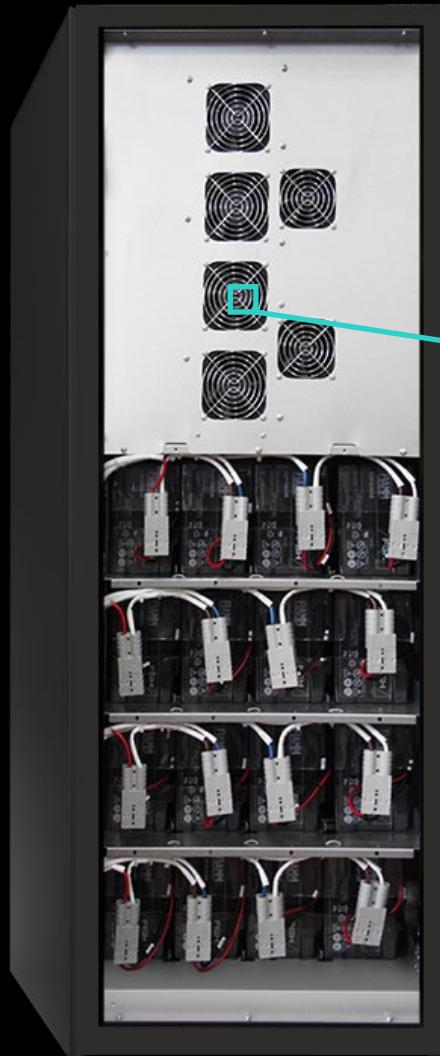
All electronic boards are completely tropicalized, thus guaranteeing maximum protection and reliability even in the most dusty environments.



## Security and reliability

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### SPEED-CONTROLLED FANS

The fans automatically change speed according to applied load variations, significantly reducing noise at partial loads.

In this way there's lower wear and so the components' expected life is extended.

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## Battery compartment

### ■ FRONT ACCESS

The battery compartment features an **entirely Hot Swap design** and is directly accessible from the front side.

Any operation on the battery drawers can be carried out easily, quickly and in complete safety.

Thanks to the **Anderson connectors**, replacement operations are even faster and can be performed with the UPS running.

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## Battery compartment

### ■ SAFETY GUARANTEED

NOVA guarantees maximum safety also for battery operations thanks to specific equipment such as the **battery boxes with polyurethane safeguards**, the **internal protection fuse** and the **reverse polarity control function**.

It is also possible to **disconnect batteries** by the integrated Battery Breaker, so to carry out maintenance operations with no need to switch to Bypass Mode.

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## Battery compartment

### ■ MAXIMUM AUTONOMY

NOVA has been designed to guarantee the utmost autonomy available in the threephase stand-alone UPS sector.

It is possible to integrate up to 3 internal battery strings in the 10/15/20 kVA version, and even **up to 4 internal strings in the 30/40 kVA version**.

The UPS has also been designed for expansion via **external battery cabinets**.

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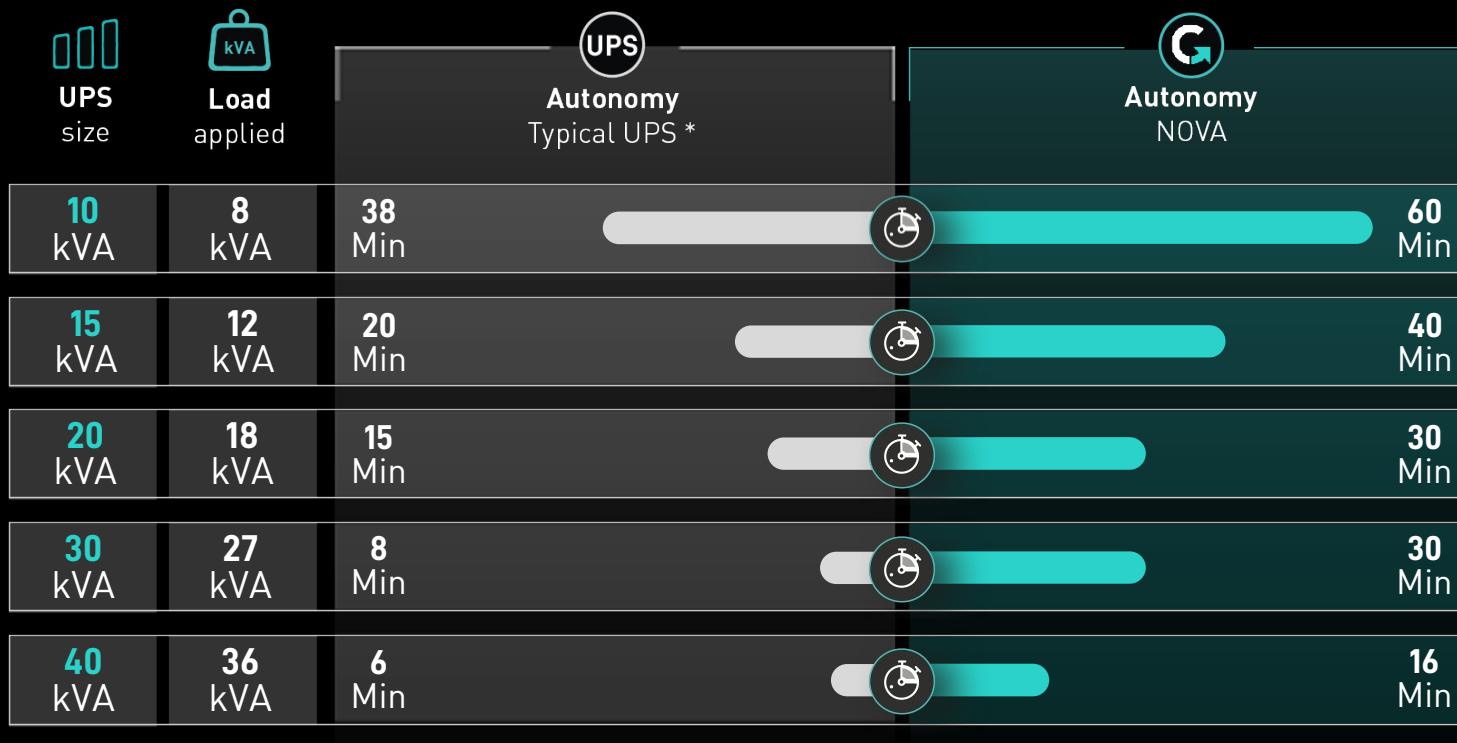


## Battery compartment (example)

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Thanks to the possibility of mounting up to 4 strings of internal batteries, NOVA offers significantly greater autonomy than a typical small-to-medium power threephase stand-alone UPS.



\* Threephase UPS with 2 internal strings of 40 batteries (12V / 9 Ah)

# Keep in touch

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