



# Storage System Leonardo

## 4K 3000-48 Li

### Product description:

Storage System Leonardo 4K 3000-48 Li

Storage system Leonardo 4k3000-48 Li 3000W 48V, Lithium Ion Battery.

The Leonardo 4K is a LITHIUM accumulation system, specifically designed for NEW PLANTS.

In the event of a power failure, the Leonardo 4K 3000/48 Li guarantees the continuity of operation of the utilities without perceptible

discontinuity, creating an isolated Off-Grid grid for the privileged users connected to AC-OUT 1.

The Leonardo PRO 4k is used to increase the user's share of self-consumed energy, maximizing energy independence.

The Leonardo 4K 3000/48 Li provides four independent MPPT maximum power point search inputs, which, depending on the battery charge status, always maximizes the energy extracted from the PV modules.

The Leonardo PRO II 3000/48 Li is compatible with LG CHEM's TAWAKI BATTERY and RESU 3.3 - 6.5 - 10 lithium-ion battery and can be installed in accordance with CEI 0-21.

Advantages of using the AC Leonardo 4K 3000-48 Li storage system

- Maximum efficiency: 95%
- Output power: 3000 VA
- Easy wiring and installation
- AC overload and short circuit protection with direct self-consumption + supply from the battery, the PV system feeds directly into the home and the peak consumption is cancelled by the power taken from the battery.

Anti-blackout function.

In case of BLACK-OUT, the privileged users connected on the AC-OUT-1 line are powered by creating a PRIVILEGATED isolated network.

During the day, the device is normally in the BY-PASS + INVERTER state, for direct self-consumption with accumulation, the PV system directly feeds the domestic users and the excess



production is used to charge the battery, trying to cancel the power taken from the mains;  
In case of fully charged battery and reduced self-consumption, the management system never feeds energy into the grid, but a clean contact for maximum self-consumption allows to activate user loads (water heater, heat pump, etc. ...) increasing its share of self-consumed energy.  
At night, when we have no more PV power produced, the converter delivers the power required by the users, with the support of the electrical network in case of demand exceeding the capacity of the appliance.

Lithium ion batteries: TAWAKI, RESU 3.3 - 6.5 - 10 LG CHEM

Integrated monitoring and control

### Technical characteristics of the AC Leonardo 4K 3000-48 Li storage system

Type of product: Hybrid storage system for NEW photovoltaic systems with LITHIUM battery able to guarantee the complete self-consumption of the energy generated 100% and to maximize the energy independence of domestic users.

Hybrid storage system for NEW photovoltaic systems with LITHIUM battery

MPPT charging through charge controllers with n.4 independent inputs

Max PV Power 4kWp

PEAK SHAVING function more power available from the electronic counter

ANTI-BLACK OUT function on privileged users AC-OUT 1

Optional external DATA-LOGGER

Pure sine wave DC/AC inverter

Rated power AC 3000VA

Maximum Efficiency 95%

Maximum charging current 60A

Charge regulator efficiency PV 97.2%

Contact for maximum self-consumption

Battery disconnection switch

Battery voltage 48Vdc

LITHIUM batteries: TAWAKI, RESU - LG CHEM

AC overload and short circuit protection

IP20 Container

Easy wiring and installation

Complies with CEI 0-21

You can discover the full range of storage systems on the dedicated section of the site by clicking [HERE](#).

Images and technical data not binding

### Product features:



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Continuous power single phase (KW): 2.4  
Frequency (Hz): 50  
Voltage (V): 230  
Protection degree: IP20  
Length (mm): 395  
Width (mm): 940  
Height (mm): 250  
Weight (Kg): 18