



BAS-S154-25

BAS-S154-25, Indoor energy storage solution

Code: EB2502. DESCATALOGADO

- > Power (VA): 25 kVA
- > Rated capacity: 154 kWh
- > In (A): 37
- > Rated voltage (Vac): 400
- > Frequency (Hz): 50
- > Battery type: LFP
- > Protocol: Modbus TCP/IP

Description

Modular indoor energy storage solution for connecting in parallel to the grid, LFP lithium technology Initial capacity of 154 kWh and 25 kVA of power (up to 616 kWh and 400 kVA).

- Standardized energy storage system, expandable up to 4 x 154 kWh in terms of exchanging both energy and power with the grid.
- All-in-one AC-coupled plug & play solution.
- Rated storage capacity of 154 kWh.
- From one to sixteen three-phase next-generation 4Q inverters of 25 kVA, for a total of 400 kVA.
- Lithium iron phosphate technology for maximum operational and fire prevention safety.
- FLEPS, systems to maximise fire safety
- All-in-one energy management system with cloud connection to monitor all the installed systems, and a reliable remote maintenance service.
- Easier maintenance thanks to plug-in modules (battery modules, battery management system, inverter).
- Additional UPS system for safe operation during power outages.
- Certified as per the VDE AR-N 4105/4110 standard.

Application

- Electromobility
- Agriculture
- Industry
- Tertiary sector
- Reduction of spikes
- Emergency power
- Optimized self-supply
- Flexibility market
- Network services (voltage and frequency stabilization)



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Specifications

Battery specification

| | |
|-----------------------|--|
| State of Health (SOH) | 15 years(años) > 693000 kWh (90% DoD) > 900000 kWh (70% DoD) > 1100000 kWh (50% DoD) |
| Useful life | 15 years(años) > 693000 kWh (90% DoD) > 900000 kWh (70% DoD) > 1100000 kWh (50% DoD) |
| Capacity | 154 kWh |
| Performance-guarantee | 10 years or 470000 kWh of energy through the battery |
| Type | Lithium-Ionen (LiFePO ₄), prismatic |

Electrical characteristics

| | |
|------------------------|----------------------|
| Frequency | 50 Hz |
| Surge protection (DSP) | Class 1 & 2 |
| Nominal current In (A) | 37 |
| Power | 25 kVA |
| Earthing system | TN-S, TN-C-S, TT |
| Nominal energy | 154 kWh |
| Usable energy | 138,6 kWh (90 % DoD) |

Mechanical characteristics

| | |
|----------------------------------|------------------------|
| Size (mm) width x height x depth | 3000 x 2310 x 938 (mm) |
| Weight (kg) | 1848 |

Environmental characteristics

| | |
|--|---|
| Protection class | IP 11 |
| Relative humidity (without condensation) | 5 ... 95 % |
| Installation, location, position. | The room height min. 2.5m. A minimum width of 1.5 m must be maintained in order to allow access for maintenance work. |
| Ambient temperature | 0 ... + 55 °C |

Standards

| | |
|---------------------------------------|---|
| Electrical safety, Maximum height (m) | 2000 |
| Standards | UNE-EN 61000-6-2, UNE-EN 61000-6-4, UNE-EN 61439-1, UNE-EN 61439-2, UNE-EN 62109-1, UNE-EN 62619, UN 38.3, VDE-AR-E 2510-50 (6.2.6), VDE-AR-N 4105, VDE-AR-N 4110, UNE-EN 50549-1, TOR Producer Typ A, 2014/53/EU (RED), 2014/30/EU (EMC), 2014/35/EU (LVD), 2006/66/E6 (Bat. directives), UNE 217002, UNE 206007-1, UNE 206006 |

BAS-S154

Modular energy storage system



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| CODE | TYPE | Power (VA) | Rated voltage (Vac) | Rated capacity | Battery type |
|---------|------------------|------------|---------------------|----------------|--------------|
| EB2502. | BAS-S154-25 | 25 kVA | 400 Vac | 154 kWh | LFP |
| EB2583. | BAS-S154-200-308 | 200 kVA | 400 Vac | 308 kWh | LFP |
| EB25C3. | BAS-S154-300-308 | 300 kVA | 400 Vac | 308 kWh | LFP |