LITHIUM SUPERPACK

12,8V & 25,6V Lithium SuperPack, with integrated BMS and safety switch.

Litio SuperPack

Litio SuperPack

Litio SuperPack

Litio SuperPack

Litio SuperPack

Integrated BMS and safety switch

The SuperPack batteries are extremely easy to install, needing no additional components.
The internal switch will disconnect the battery in case of over discharge, over charge or high temperature.

Abuse proof

A lead-acid battery will fail prematurely due to sulfation:

- If it operates in deficit mode during long periods of time (i.e. if the battery is rarely, or never at all, fully charged).
- If it is left partially charged or worse, fully discharged.

A Lithium-Ion battery does not need to be fully charged. Service life even slightly improves in case of partial charge instead of a full charge. This is a major advantage of Li-ion compared to lead-acid.

The SuperPack batteries will cut-off the charge or discharge current when the maximum ratings are exceeded.

Efficient

In several applications (especially off-grid solar), energy efficiency can be of crucial importance.

The round-trip energy efficiency (discharge from 100% to 0% and back to 100% charged) of the average lead-acid battery is 80%.

The round-trip energy efficiency of a Li-ion battery is 92%.

The charge process of lead-acid batteries becomes particularly inefficient when the 80% state of charge has been reached, resulting in efficiencies of 50% or even less in solar systems where several days of reserve energy are required (battery operating in 70% to 100% charged state).

In contrast, a Li-ion battery will still achieve 90% efficiency even under shallow discharge conditions.

Can be connected in parallel

The batteries can be connected in parallel. Series connection is not allowed.

Use in upright position only.

SPECIFICATIONS

Lithium SuperPack	12,8 / 20	12,8 / 60	12,8 / 100	12,8 / 200	25,6 / 50
Chemistry			LiFePO4		
Nominal voltage			12,8 Vdc		25,6 Vdc
Nominal capacity @25ºC	20 Ah	60 Ah	100 Ah	200 Ah	50 Ah
Nominal capacity @0ºC	16 Ah	48 Ah	80 Ah	160 Ah	40 Ah
Nominal energy @25ºC	256 Wh	768 Wh	1280 Wh	2560 Wh	1280 Wh
Charge and Discharge					
Max. Cont. discharge current *	30 A	30 A	50 A	70 A	50 A
Peack discharge current (10 sec)	80 A	80 A	100 A	100 A	100 A
End of discharge voltage			10 V		20 V
Charge voltage, absorption **			14,2 - 14,4 V		28,4 - 28,8 V
Charge voltage, float			13,5 V		27 V
Max. cont. charge current	15 A	30 A	50 A	70 A	50 A
Operating Conditions					
Parallel configuration			Yes, unlimited		
Series configuration			No		
Operating temperature			Discharge: -10 to 50 ºC, Charge 5 to 45 ºC		
Storage temperature			-40 to 65 ºC		
Max. Storage time when fully charged			1 year ≤ 25°C 3 months ≤ 40°C		
Humidity (non-condensing)			Max. 95%		
Protection class			IP 43		
Other					
Power Connection	M6	M6	M8	M8	M8
Dimensions (l x w x h) mm	181 x 77 x 167	229 x 138 x 213	330 x 171 x 220	520 x 269 x 208	330 x 171 x 220
Weight	3,5 Kg	9,5 Kg	14 Kg	31 Kg	14 Kg

* The battery may disconnect when a load with a high input capacitance is connected, such as an inverter. The battery will however retry and connect after appoximately 10 seconds

** The absorption period should preferably not exceed 4 hrs. A longer absorption period may slightly reduce service life.

DOWNLOADS

CATÁLOGO GENERAL 2020

Catalogo-Bornay-0520.pdf Size: 21.51 MiB