

Advanced Lithium Battery Superieur 12 V | 140 Ah

1848 Wh | OCV 13,2 V | WhisperConnect | LiFePo4 Iron Phosphate Technology



Designed and engineered in Europe, by a team of specialists with over 35 years of experience in the field of off-grid power systems. Resulting in a sensational renewable energy source for any professional or recreational user. That is the new 140 Ah (1848 Wh) 13.2 VDC Advanced Lithium Battery Superieur. Engineered with advanced & safe LiFePO4 (LFP) chemistry to ensure a constant power provision at any time and under any circumstance. Designed as an "energy block" to create larger 12 and 24 VDC systems.

A-grade cylindrical cells are applied resulting in the highest possible energy density.

Optimized integration

The Advanced Lithium Battery Superieur includes an advanced, energy efficient, integrated BMS. The battery is waterproof (with additional raincover IP54 degree) and can be used (charging and discharging) at low ambient temperatures enabled by an internal heating element. The design contains a modern plug-and-play CAN communication, as standard the WhisperConnect CAN protocol is applied.

The multi connectable terminals secure professional cable connections for installations with voltage configurations (up to 8 Advanced Lithium Battery Superieur packs can be installed for series-parallel configurations, 2 units in series and 4 units in parallel)

Battery Monitoring & Heating Functionality

The Advanced Lithium Battery Superieur $13.2 \text{ V} \mid 140 \text{ Ah}$ features accurate integrated battery monitoring showing key parameters such as voltage, current, temperature, state of charge and "time remaining".

Information is aggregated to show the battery voltage level of a complete battery system (sum of the modules). Each battery is fitted with a clear LED indicator to show the actual status of the battery.

Parallel and serial connections

The Advanced Lithium Battery Superieur allows to configure 12 V and 24 V, systems the easy way. Optional installation parts are offered to ensure a secure installation of the battery on a surface.

- High quality Lithium (LFP) grade cylindrical cells
- Safe Lithium Iron Phosphate (LiFeP04) technology
- Integrated short circuit protection
- Integrated solid-state switch with precharge function
- Integrated BMS (Battery Management System)
- Integrated cell heating possibility for subzero charging
- MOS switched cell balancing





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Application Data

	Advanced Lithium Battery Superieur 12 V 140 Ah
Article Number	40291215
Electrical Parameters	
Nominal Voltage	12.0 Vdc
Open Circuit Voltage	13.2 Vdc
Typical Capacity	140 Ah
Minimal Capacity	135 Ah
Energy	1848 Wh
Resistance	<5 mΩ
Efficiency	>99 %
Cycle Life	>3500 cycles at 1C, 80 % DoD
Cell Self-Discharge	<2 % per month
Cell Type (chemistry)	Cylindrical (LiFePo4)
Cells in Series/Parallel	4S/30P
Max. module configuration	2S/4P
Discharge Parameters	
Continuous Discharge Current	120 A
Max. Discharge Current	140 A
Pulse Discharge Current	180 A (1 s)
Recommended Volt. Disconnect	10.5 Vdc
BMS Discharge Cut-off Voltage	9.2 Vdc
Short Circuit Protection	200 µs to 600 µs
Charge Parameters	200 μ3 to 000 μ3
Charge Method	CC-CV
Recommended Charge Voltage	14.2 Vdc to 14.4 Vdc
Recommended Float Voltage	13.8 Vdc
	40 A
Recommended Charge Current Maximum Charge Current	80 A
BMS Charge Cut-off Voltage	14.6 Vdc
Mechanical Parameters	14.0 VGC
Mechanical Farameters	
Dimensions	329 mm x 180 mm x 204 mm (12.95" x 7.09" x 8.03")
Weight	16.55 kg (36.5 lbs)
Terminal Thread	2x M 8 x 1.25
Battery Housing	ABS Plastic Case
Housing Protection	IP21 With additional raincover IP54
Temperature Parameters	
Discharge Temperature	-20°C to 60°C (-4°F to 140°F)
Charge Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-20°C to 45°C (-4°F to 113°F)
Compliance	
Certifications	UL 1642 For Cells
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- External communication interface: CAN bus WhisperConnect (2 ports for easy daisy chaining)
- User signal interface for optional 3 connections
- Optical LED indicators and DIP switches on every battery
- Historical storage of events and data
- Sleep mode for low power consumption
- Configurable DIP switch settings for multiple systems, for monitoring on OctoView 3

Accessories:





OctoView 3

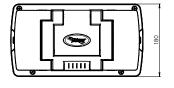
OctoControl Gateway

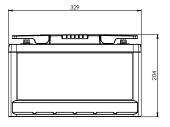




Battery Pack Installation Kit

Dimensions







Different assembly options:

