

12V Batteries

English



ADVANTAGES

High energy density for a longer lifespan in comparison to the battery size

Our **lightweight batteries** use the newest technology resulting in amazing weight reduction

Minimum dimensions make the battery compatible for all sorts of applications

All our batteries are **powerful** and reliable, creating extremely easy usability

Maintenance-free batteries, no service needed

Our products are **user friendly** and have an amazingly **long lifespan**

High discharge capacity to charge the batteries as fast as possible

Our batteries are offered with the most capacity for the **best price possible**



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DATASHEET

Battery characteristics

Product name	12V 60Ah	12V 100Ah	12V 200Ah
Article code	300002631	300002632	300002633
Nominal voltage	12.8V	12.8V	12.8V
Nominal capacity	60 Ah	100 Ah	200 Ah

Battery dimensions

Weight	7.6 kg	12.7 kg	28.1
Dimensions (LxWxH)	26x17x22 cm	33x17x23 cm	52x27x23 cm
Terminals	1x plus / 1x minus	1x plus / 1x minus	1x plus / 1x minus
Terminal size	M8	M8	M8
Impedance	<50 mΩ	<50 mΩ	<50 mΩ

Battery specifications

Max. continues charge current	30 A	50 A	50A
Max. continues discharge current	60 A	100 A	100 A
Max. instantaneous discharge current	120 A	200 A	200 A
Maximum charge voltage	12.6 V	14.6 V	14.6 V
Discharge cut-off voltage	10 V	10 V	10 V
Handles	Yes	Yes	Yes

Battery temperatures

Environment	Details	Minimum	Maximum
Operating temperature	Charge	0°C	45°C
	Discharge	-20°C	65°C
Storage temperature	1 month	-20°C	60°C
	3 months	-20°C	45°C
	12 months	-20°C	20°C

Discharge temp.	-20°C	-10°C	0°C	23°C	60°C
Discharge capacity	50%	60%	80%	100%	95%

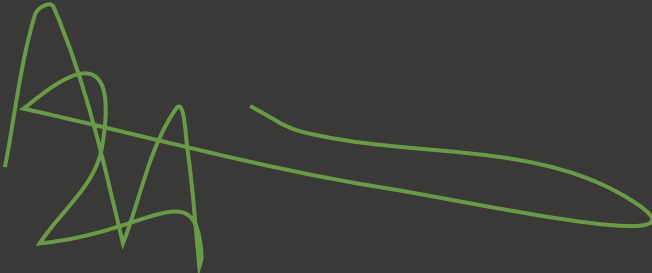
MISSION

Offering excellent quality products, that is our mission. Convince our clients with lots of reliable running time with minimal maintenance intervals and a high user experience. If we succeed with this mission, we will succeed with our vision.

Offering **affordable batteries** without any consequences for **quality**

The durability, combined with no maintenance costs and affordable prices make this battery a perfect candidate for who wants to use an electric powerdrive. There are multiple technical advantages of a Battery Technology battery that make it a pleasure to use.

With our new generation LiFePO₄-batteries we aim to make the use of batteries both easy and affordable.



Specifications Battery Management System (BMS)

Each battery has an integrated Battery Management System (BMS). A BMS is the electronic system that manages a rechargeable battery such as by protecting the battery from operating outside its safe operating area, monitoring its state, calculating secondary data, reporting that data, controlling its environment, authenticating it, and balancing it.

Specification	Details	12V 60Ah	12V 100Ah	12V 200Ah
Over charge protection	Detection voltage [V]	3.9	3.9	3.9
	Detection delay time [ms]	<168	<168	<168
	Release voltage [V]	3.85	3.85	3.85
Over discharge protection	Detection voltage [V]	2.0±0.1	2.0±0.1	2.0±0.1
	Release voltage [V]	2.3±0.1	2.3±0.1	2.3±0.1
Over current protection	Detection current [A]	180	<200	<200
	Detection delay time [ms]	1000	1000	1000
	Release condition	Cut short circuit	Cut short circuit	Cut short circuit
Short protection	Protection condition	Exterior short circuit	Exterior short circuit	Exterior short circuit
	Release condition	Closer short circuit	Closer short circuit	Closer short circuit
Over current protection (charging)	Charging current normal range [A]	20-50	50	50
	Protection condition [A]	60	100	100
	Release condition	Disconnect charger	Disconnect charger	Disconnect charger
Overheat protection	Protection condition [°C]	75	75	75
	Release conditions [°C]	65	65	65
Inside resistance	Main loop electrifying resistance	$V_{gs} = 10V; R_{DS} \leq 60m\Omega$	$V_{gs} = 10V; R_{DS} \leq 60m\Omega$	$V_{gs} = 10V; R_{DS} \leq 60m\Omega$
Consumption	Normal usage [µA]	≤80	≤80	≤80



Automotive branche

Maritieme branche

Energy storage

Custom applications

Battery Technology products are universal and easy to use for multiple applications. Our batteries are compatible for the **maritime** branche, the **automotive** industry and for **energy storage**. In addition, there are endless possibilities for **custom applications**. In consult with our team, there are multiple possibilities for any specific project to work.

Do not hesitate to contact us for the possibilities.

Complete package

At Battery Technology we offer a complete package to our customers. Next to batteries, we offer **compatible accessories** so that customers have access to a complete system. Chargers, fuses, cables, and monitors can all be included in the package.

In consult with our team, **anything** is possible with regards to custom applications.



Fuse system



Battery monitor



Battery



Charger

Undeniable **quality**



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