LIB Lithium Ion Battery 100Ah

smart - power - anywhere

IBS Intelligent Battery System – the ultimate Battery System

IBS Li-Ion battery combines a lot of power with light weight. At only 14.5kg 100Ah capacity are available, which can also be availed. Compared to an AGM battery with the same capacity, the IBS-LiIon100 weighs less than half. Since 100% capacity is usable, four times the capacity per kilogram is available. With a 100Ah AGM battery only 50% (50Ah) can be used.
The 100A Li-Ion battery provides 150A for 40 minutes, which is an absolute top value. A lead acid battery of the same size reaches its limit after 15minutes.

For technical reasons, the cell voltage in Li-Ion (LiFePO4, lithium iron phosphate) is 0.6V higher than in lead-acid batteries, which technically has an advantage since many appliances perform better such as inverters or 12V compressor fridges.
The IBS-LiIon100 is suitable as a powerful auxiliary battery and should be installed in the vehicle interior, since this battery is equipped with a lot of power electronics called BMS. This BMS protects the battery against over- and under-voltage, overcurrent and deep discharge. The battery delivers up to 160A and briefly 200A. To obtain more power, the batteries can be connected in series and in parallel. The battery is specially protected against mechanical damage such as an accident. At -20 ° C, depending on the load, between 50 and 80% of the capacity is still available.
IBS has adapted the IBS product range for the new lithium batteries for many years. Thus, the dual battery system IBS-DBS (as of version 8.1), the IBS-DBR-Li and the new version of the IBS-DBM20A (as of version 2.7) are ideally suited for use with these high-performance batteries.
The IBS Ultra Sine Inverters 400W / 800W / 1600W deliver much more power due to the high available energy. The applications are versatile and, thanks to the large weight savings, ideally suited for camping, expedition, service and emergency vehicles.

Battery type	IBS-LiIon50	IBS-LiIon100	IBS-LiIon180
Usable Capacity	50Ah	100Ah	180Ah
Battery type	Li-Ion (LiFePO4)	Li-Ion (LiFePO4)	Li-Ion (LiFePO4)
Continuous discharge	50A	160A	160A
Nominal voltage	12.8V	12.8V	12.8V
Charge current 0.2-0.5C	10A**	**20**-50A**	60A**
Charge current max.	25A*	60A*	60A*
Charge cycles **	1000+	1000+	1000+
Temperature range	-20°C- 55°C	-20°C- 55°C	-20°C- 55°C
Final charging voltage	14.6V	14.6V	14.6V
BatteryManagementSystem	yes	yes	yes
Weight	6.8kg	14.7kg	23kg
Dimensions	198x165x170mm	329x172x214mm	485x170x220mm
Battery poles	2xM8	2xM8	2xM8
Transport certificate	yes (UN38.3)	yes (UN38.3)	yes (UN38.3)
EMV/CE	yes	yes	yes

*Charging currents higher than 0.2-0.5C reduce battery life.

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Distributor:

www.ibs-tech.ch

IBS Li-Ion Batteries