

# LITHIUM POWER



-60%  
WEIGHT

180°



**LiFePO4**

**intact**  
BATTERY - POWER

# LITHIUM POWER

Sealed maintenance-free  
lithium-iron-phosphate battery (LiFePO<sub>4</sub>)



-60%  
WEIGHT



**ATTENTION:**  
No chargers  
pulse-charging  
use.

## INTACT LITHIUM-POWER LI-1200, THE HIGH-TECH BATTERY FOR EXTREME LOADS

The power pack is perfectly suited as a lead replacement battery in marine, solar, camping and hobby applications.

Thanks to lithium-iron phosphate technology (LiFePO<sub>4</sub>), it impresses with its extremely low weight, delivers stable voltage under extreme loads and maximum safety.

## GENERAL FEATURES:

- » Secure lithium technology (LiFePO<sub>4</sub>).
- » Extremely high service life with full capacity utilization. 3,500 cycles up to 100 % depth of discharge (= 100 % DOD).
- » Installation dimensions  
L: 353 mm W: 175 mm H: 190 mm  
(with Round pole H: 210 mm)
- » With screw terminals or round poles.
- » Integrated battery management system (BMS).
- » Recharges faster with a smaller PV system than a lead-acid battery of comparable capacity.
- » Very high energy density. Discharge currents up to 250 A (short-term load) without voltage drop.
- » Self-discharge many times lower than conventional lead-acid or GEL batteries.
- » Ready to install and ready to use.

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Model	LI-1200
Technology	Lithium-Iron-Phosphate-Technology LiFePO <sub>4</sub>
Supply voltage	12,8 Volt
Capacity	105 Ah / 1.200 Wh (1.344 Wh according to manufacturer)
Dimensions (L x W x H)	353 x 175 x 190 mm
Weights	10 kg
Lifetime	3.500 Cycles DOD 100 % = bei 100 % Discharge depth
Water proof	IP66
Position of terminal	0 (Positive Pole right)
Terminal	M 6 Internal thread + Round pole Adapter (A-Pole)
Charging voltage	max. 14,6 Volt
Charging current	max. 52,5 A (0,5C)
Discharge current constant	100 A
Discharge current max.	250 A (for 15 seconds)
BMS (Battery-Management-System)	integrated
Short circuit protection	Integrated short circuit protection up to 1.000 A 100us
Operating temperature range at discharge	- 20 °C to + 55 °C
Temperature range at the time of loading	-0 °C to + 45 °C
Temperature range Storage	-10 °C to + 35 °C

### HIGH DISCHARGE CURRENTS:

The intAct Lithium-Power LI-1200 is especially suitable for high discharge currents, up to 250 A (short time load), without loss of capacity. The voltage level remains at a stable level during the entire discharge process.

### WEIGHT SAVING:

Our intAct Lithium-Power LI-1200 weighs only about 40 % of a conventional lead-acid / gel battery with comparable nominal capacity.

### SECURITY:

The battery management system (BMS) installed in the intAct Lithium-Power LI-1200 permanently monitors all cell parameters (voltage, temperature, current). This ensures a maximum of safety as well as an effective protection against overcharge and deep discharge. If a fault occurs, the BMS immediately interrupts the electrical connection to the respective consumer or charger.

### SELF-DISCHARGE:

The intAct Lithium-Power LI-1200 has a very low self-discharge and can therefore be stored for many times longer than conventional lead-acid or GEL batteries.

### APPLICATIONS:

The intAct Lithium-Power LI-1200 can be used in many different applications: marine, camping, caravan, solar, hobby

Capacity	LED 1	LED 2	LED 3	LED 4	LED 5
0	5S-2HZ (flashes)	Off	Off	Off	Off
1% - 10%	5S (On)	Off	Off	Off	Off
11% - 30%	5S (On)	5S (On)	Off	Off	Off
31% - 50%	5S (On)	5S (On)	5S (On)	Off	Off
51% - 75%	5S (On)	5S (On)	5S (On)	5S (On)	Off
76% - 100%	5S (On)	5S (On)	5S (On)	5S (On)	5S (On)

### CHARGING TECHNOLOGY:

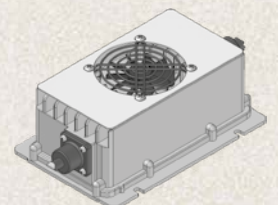
We recommend the chargers **L-N1210-LI** and **L-N1220-LI** from our **inbatt N-Series**.

### IDEAL FOR ON-BOARD USE

For small supply applications in camping and on boats, this charger series can stay on the battery and charge easily when needed. This charger is supplied with the appropriate charging characteristic for the LI-1200 LiFePO<sub>4</sub>.

Protection class: IP67

Articel-Number	Voltage	Loading electricity	Loading time LI-1200 LiFePO <sub>4</sub>	Supply voltage	Dimensions L x B x H	Weight	Power line	Standard Charging line
<b>L-N1210-LI</b>	12 V	10 A	10 h	E230V / 2A	187 x 122 x 70	1,4 kg	1,5 m	2 m
<b>L-N1220-LI</b>	12 V	20 A	5 h	E230V / 2A	187 x 122 x 70	1,4 kg	1,5 m	2 m



## TERMS OF USE AND WARNINGS:

Please read the following instructions for use + warnings carefully before using and inserting the battery.

- 1 The battery must not be modified, disassembled or repaired. Components must not be replaced by yourself.
- 2 The battery must not be operated in a parallel circuit.
- 3 A series connection of the batteries is possible up to 4 pieces (48 Volt).
- 4 The battery must not be short-circuited.
- 5 It is forbidden to use the battery if it is near a heat source or water source.
- 6 Do not operate this battery in the presence of flammable liquids, gases or dust.
- 7 Do not place the battery on inflammable materials such as carpets, upholstery, paper, cardboard, etc.
- 8 Incorrect installation may result in fire hazard.
- 9 Do not damage the battery externally.
- 10 It is prohibited to use a badly damaged or deformed battery. The same applies to defective cables.
- 11 The battery must not be dropped as the inside of the battery may be damaged.
- 12 The battery may not be used as a toy and must be kept out of the reach of children.
- 13 For better performance, please fully charge the battery before use.
- 14 The battery should only be charged with a suitable charger with the appropriate charging characteristic for Lithium LiFePO<sub>4</sub> can be loaded.
- 15 The battery must not be charged with reverse polarity, or charged with reverse polarity.
- 16 The battery must not be immersed in liquids.
- 17 Do not allow the battery to freeze. Never charge a frozen battery.
- 18 Do not expose this battery to excessive heat.
- 19 This battery contains a lithium-ion rechargeable battery which is stored in a compartment must be disposed of fairly.
- 20 For the disposal of this battery, all regulations and legal requirements must be observed.
- 21 An MSDS (Material Safety Datasheet) can be provided by the manufacturer on request.
- 22 On request, the UN38.3 certificate for the transport of the battery can be provided.

» This lithium battery may only be shipped or returned after consultation with the manufacturer / distributor.

» All legal requirements and regulations must be observed during shipping or transport.

» The manufacturer / distributor assumes no liability for improper shipment and handling of the battery.

» The manufacturer / distributor assumes no liability if this battery is not shipped or returned as described above is used as described.



[www.intact-batterien.de](http://www.intact-batterien.de)

ALWAYS THE  
**BATTERY**  
THAT FITS!

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