

LITHIUM POWER



-60%
WEIGHT

180°



LiFePO4

intact
BATTERY - POWER

LITHIUM POWER

Sealed maintenance-free
lithium-iron-phosphate battery (LiFePO₄)



-60%
WEIGHT



ATTENTION:
Do not charge with
a pulse charger.

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

This powerhouse is perfectly suited as a replacement for a lead-acid battery in marine, solar, camping and hobby applications.

Thanks to the lithium iron phosphate technology (LiFePO₄), the battery features an extremely low weight, delivers stable voltage under extreme loads and maximum safety.

GENERAL FEATURES:

- » Secure lithium technology (LiFePO₄).
- » Extremely high service life with full capacity utilization. 3,500 cycles up to 100% DOD
4,500 cycles 80% 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 by 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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TERMS OF USE AND WARNINGS:

Please read the following instructions for use + warnings carefully before using and installing 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 Up to 4 pieces (48 volts) of this battery can be connected in series.
- 4 The battery must not be short-circuited.
- 5 It is forbidden to use the battery 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 exterior of 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 LiFePO₄.
- 15 The battery must not be connected 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 accumulator which must be disposed of properly.
- 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 used as described above.



VISIT US!

www.intact-batterien.de

ALWAYS THE
BATTERY
THAT FITS!

intact
BATTERY - POWER

Model	LI-1200
Technology	Lithium iron phosphate technology LiFePO ₄
Supply voltage	12.8 volts
Capacity	105 Ah / 1,200 Wh (1,344 Wh according to manufacturer)
Dimensions (L x W x H)	353 x 175 x 190 mm
Weight	10 kg
Lifetime	3,500 Cycles DOD 100% 4,500 Cycles DOD 80%
Water proof	IP66
Position of terminal	0 (Positive Pole on the right)
Terminal	M 6 internal thread + round pole adapter (A-pole)
Charging voltage	max. 14.6 volts
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

In small camping or marine supply-applications, this charger series can stay connected to the battery and charge easily when necessary. This charger is delivered with the appropriate charging characteristic for the LI-1200 LiFePO₄.

Protection class: IP67

Articel-Number	Voltage	Loading electricity	Loading time LI-1200 LiFePO ₄	Supply voltage	Dimensions L x B x H	Weight	Power line	Standard Charging line
L-N1210-LI	12 V	10 A	10 h	E230V / 2A	187 x 122 x 70	1.4 kg	1.5 m	2 m
L-N1220-LI	12 V	20 A	5 h	E230V / 2A	187 x 122 x 70	1.4 kg	1.5 m	2 m

