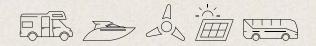
# LITHUM POWER









LiFeP04



### LITHUM POWER

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









**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.



## LITHUM POWER

### 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.



ALWAYS THE **BATTERY THAT FITS!** 



Model	LI-1200				
Technology	Lithium iron phosphate technology LiFePO4				
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	O (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)

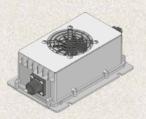
#### **CHARGING TECHNOLOGY:**

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.

Articel-Number	Voltage	Loading electricity	Loading time LI-1200 LiFeP04	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



Protection class: (IP67)