

**Only
benefits**

Lithium-Ion



**LiFePO4
BATTERY
CELLS**

Advantages.

- Excellent low temperature performance
- High safety performance
- Longer lifespan
- High energy density
- Outstanding charging, discharging performance
- Lower self-discharging rate



Applications.

- Electric Vehicles
- Electric bus
- Electric car
- Boat
- Energy storage
- Solar storage
- UPS
- Electric scooter
- Electric bike
- Miner's battery
- ...

As Battery Supplies we put a lot of effort in investigating new products & technologies. Lithium-Ion Batteries is one of the technologies on which we believe it can offer many advantages.



LiFePO4 = Lithium Iron Phosphate

We can offer a full power solution of LiFePO4 battery pack + charger + BMS.

Our range covers from 12V – 24V – 48V – 72V – 144V to 388V.

With a capacity of 10 Ah – 20Ah – 30Ah – 50Ah – 100Ah – 200Ah – 600Ah.

The batteries are supplied with a LiFePO4 charger & patented BMS (Battery Management System) that can monitor and equalize each single cell during charge & discharge.



WHY TO CHOOSE FOR OUR "LIFEP04" = LITHIUM IRON PHOSPHATE BATTERIES:

- High Performance and super compact.
- Extremely safe & stable chemistry: It is non-explosive & will not catch fire under collision due to overcharging or from short circuit.
- High discharge rate capability: When accelerating, the battery will have better powerful performance than other Lithium and NiMH batteries.
- Long service life: Up to over 6 years, up to 2000 cycles (under 80%DOD).
- Deep Depth of Discharge (DOD): The batteries can be fully (100%) discharged.
- Lead-acid batteries can only be discharged till 80%, otherwise they will be damaged. So with the same capacity the LiFePO4 battery is more powerful.
- The voltage of LiFePo4 is 3.2V/cell. The voltage will also remain from 3.2V – 3V within 85% of its discharge time.
- No memory effect.
- Environmentally friendly: Non-toxic, non-contaminating, no rare metals.
- CE, UL and SGS/ROHS approved.
- Wide working temperature: from -20°C to +45°C for discharge and from 0°C to +45°C for charge.

BATTERY MANAGEMENT SYSTEM (BMS)

We supply a range of low-cost, next generation, proven Battery Management System that will work for all high-power lithium iron phosphate (LiFePO4) batteries commonly used in a range of Electric Vehicle (and other) applications.

They are highly configurable in both hardware and software, allowing battery systems ranging from a few cells up to hundreds of cells. The modular design allows systems to be easily expanded with your needs, reconfiguring as required.

If you have an inquiry for our Lithium-Ion (LiFePO4) batteries, please send a mail to info@batterysupplies.be and our technical team will look to offer you the battery that will fit for your application.





LITHIUM-ION BATTERIES

LITHIUM-ION DROP-IN BATTERIES

Battery Supplies' strength in regards to li-ion-solutions is the full technical support we provide.

At Battery Supplies we have a technical team fully dedicated to LIFEPO4-Solutions.

We provide OEM-companies and installers with a custom-made and ready-made solution based on your specifications and demands. Please put yourself into contact with our engineering department!

The most reliable Li-Ion batteries on the market:

Our LiFePO4 (Lithium Iron Phosphate) batteries are developed for cyclic applications, where batteries are frequently charged & discharged. LiFePO4 is the battery technology of the future for cyclic applications where light weight, high currents and a high number of cycles are important !

For cyclic applications.

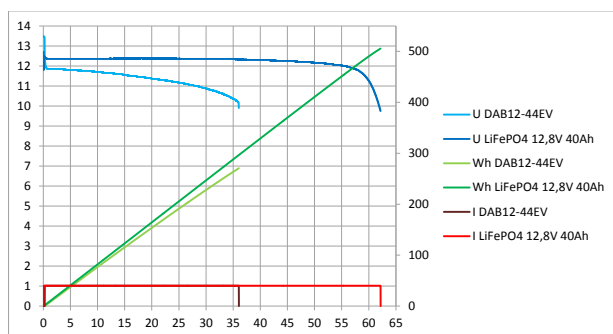
ADVANTAGES.

- High C-Rate
- Safe Lithium Battery
- Good storage, few maintenance
- Good High Temp performance
- No gassing
- Can be mounted in every position

CHARACTERISTICS

- These LiFePO4 batteries can directly replace SLA batteries in many applications.
- Longer service life: up to 2000 cycles
- Full capacity even at high speed discharge rates
- Fast charging without overheating and gassing
- Excellent life-span: service life up to 6 years
- Protection against overcharge and deep discharge
- Lighter weight: 70% lighter than standard lead acid batteries
- Ecologic: no acid, no lead, not-toxic substances
- Small sizes
- The size is the same, the performance, service-life and weight is much better!
- Easy to use and to install
- Safest Li-Ion battery

Comparing discharging graph => AGM12-44Ah / LiFePO4 12,8V 40Ah



Discharged @ 1C (40A)

Higher energy density for LiFePO4 in comparison with AGM, this at high discharge current and short discharge time



Being a company fully dedicated to batteries, it is very important for us to continuously study new technologies and developments in order to fully support our distributors, not only in a commercial way, but also technically.

Our customer database not only includes commercial companies, but also engineering companies, developers, manufacturing companies and they require a full technical assistance.

Our technical team is there for you to assist you in your customized-projects or to offer you a solution for your electrical product! Together with you we look for the best solution, taking into account the requirement of your product, the suitable technology, dimensions and weight, shape of the required battery, ...

Whether it is for a serial production of your product or a specific customized-project for one of your customers, you can rely on a full technical back-up.

Our technical team consists of technical calculators, engineers, designers and technical purchasers to provide you with the best possible solution.

Because of our experience and full dedication Battery Supplies has been able to help ou numerous OEM companies and can show a proven track record of many successful customized projects in several market segments (industrial, marine, solar, leisure) and technologies.

We would welcome your requests and look forward to assisting you in your project!

LIFEPO4 12V MODULE 40Ah-110Ah

Can be used in serial configuration
up to 4S (48V)



Specifications		LIT/D12-40M	LIT/D12-110M	LIT/D12-40M+	LIT/D12-110M+
Nominal Module Voltage		12.8V	12.8V	12.8V	12.8V
Nominal Capacity (C/5, 23°C)		40Ah	110Ah	40Ah	110Ah
Weight (approximate)		6,5 kg	15,8 kg	6,5 kg	15,8 kg
Dimensions (incl. terminals)		197 x 131 x 182 mm	260 x 172 x 225 mm	197 x 131 x 182 mm	260 x 172 x 225 mm
Terminals, Female Threaded		M6 x 1.0	M8 x 1.25	M6 x 1.0	M8 x 1.25
Specific Energy		79 Wh/kg	89 Wh/kg	79 Wh/kg	89 Wh/kg
Standard Discharge	Max. Continuous Current	30A	30A	80A	150A
	Peak Current (10S)	60A	60A	120A	200A
	Cut-off Voltage	10V	10V	10V	15V
Standard Charge	Cut-off Voltage	14.6V	14.6V	14.6V	21,9V
	Standard Charge Rate	0.5C	0.5C	0.5C	0.5C



CYCLIC BATTERIES



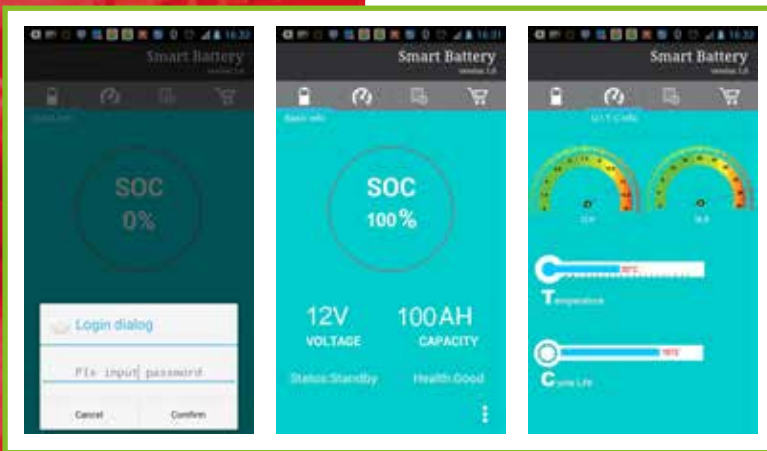
LITHIUM-ION BATTERIES



DROP-IN REPLACEMENT BATTERIES

BATTERY APP

Connect the battery via Bluetooth to your smartphone (iOS/Android).
The battery app will display real-time data on the interface of the app:
State of charge, voltage, capacity, temperature, cycle life, ...



	LIT/D12-7,5	LIT/D12-10	LIT/D12-12	LIT/D12-15
Layout/Terminals	T1	T1	T2	M5
Voltage	12.8 V	12.8 V	12.8 V	12.8 V
Capacity	7,5 Ah	10 Ah	12 Ah	15 Ah
Dimensions LxWxH	152 x 65 x 93 mm	151 x 98 x 94 mm	151 x 98 x 94 mm	180 x 76 x 166 mm
Weight	1,0 kg	1,5 kg	1,7 kg	2,3 kg
Max working current	15 A	10 A	12 A	15 A
Peak current	60 A	30 A	36 A	45 A
Charging current	< 5 A	< 5 A	< 5 A	< 10 A
Discharge cut off voltage	≤ 10 V	≤ 10 V	≤ 10 V	≤ 10 V
Inner resistance	≤ 80mΩ	≤ 50mΩ	≤ 60mΩ	≤ 50mΩ
Suitable charger	14,6V 3A : LIT/04.01.0052	14,6V 3A : LIT/04.01.0052	14,6V 5A : LIT/04.01.0053	14,6V 5A : LIT/04.01.0053

*BT

*BT

* BT: Available with Bluetooth
* No Parallel Or Serial Use

plug-and-play solutions



	LIT/D12-20	LIT/D12-24	LIT/D12-25	LIT/D12-30N
Layout/Terminals	M5	M5	M6	M6
Voltage	12.8 V	12.8 V	12.8 V	12.8 V
Capacity	20 Ah	24 Ah	25 Ah	30 Ah
Dimensions LxWxH	180 x 76 x 166 mm	174 x 174 x 128 mm	166 x 176 x 126 mm	174 x 173 x 113 mm
Weight	2,8 kg	3,2 kg	3,4 kg	4 kg
Max working current	20 A	30 A	25 A	30 A
Peak current	60 A	140 A	75 A	90 A
Charging current	< 10 A	< 12 A	< 15 A	< 15 A
Discharge cut off voltage	≤ 10 V	≤ 10V	≤ 10V	≤ 10V
Inner resistance	≤ 50mΩ	≤ 40mΩ	≤ 40mΩ	≤ 35mΩ
Suitable charger	14,6V 5A : LIT/04.01.0053	14,6V 5A : LIT/04.01.0053	14,6V 5A : LIT/04.01.0053	14,6V 5A : LIT/04.01.0053

*BT



	LIT/D12-40	LIT/D12-60	LIT/D12-80
Layout/Terminals	M6	M8	M8
Voltage	12.8 V	12.8 V	12.8 V
Capacity	40 Ah	60 Ah	80 Ah
Dimensions LxWxH	197 x 135 x 172 mm	260 x 169 x 215 mm	318 x 165 x 215 mm
Weight	5,7 kg	10,5 kg	12,5 kg
Max working current	40 A	50 A	100 A
Peak current	120 A	170 A	350 A
Charging current	< 20 A	< 30 A	< 40 A
Discharge cut off voltage	≤ 10V	≤ 10V	≤ 10 V
Inner resistance	≤ 50mΩ	≤ 20mΩ	≤ 20mΩ
Suitable charger	14,6V 10A : LIT/04.01.0080	14,6V 25A : LIT/04.01.0043	14,6V 25A : LIT/04.01.0043

*BT

*BT

Advice:

- Charge every three months.
- Use in parallel or series is only recommended in particular applications. If you would like to know if this is allowed for your application, please contact our technology team.

*BT: Available with Bluetooth



CYCLIC BATTERIES



LITHIUM-ION BATTERIES



DROP-IN REPLACEMENT BATTERIES



LIT/D12-100

LIT/D12-200

LIT/D12-300

LIT/D24-10

Layout/Terminals	M8	M8	M8	M5
Voltage	12.8 V	12.8 V	12.8 V	25.6 V
Capacity	100 Ah	200 Ah	300 Ah	10 Ah
Dimensions LxWxH	318 x 165 x 215 mm	485 x 170 x 245 mm	520 x 269 x 249 mm	180 x 76 x 166 mm
Weight	14,8 kg	25,69 kg	38,9 kg	2,6 kg
Max working current	100 A	100 A	100 A	10 A
Peak current	350 A	350 A	350 A	40 A
Charging current	< 50 A	< 100 A	< 100 A	< 5 A
Discharge cut off voltage	≤ 10 V	≤ 10 V	≤ 10 V	≤ 20 V
Inner resistance	≤ 20mΩ	≤ 10mΩ		≤ 120mΩ
Suitable charger	14,6V 25A : LIT/04.01.0043	14,6V 25A : LIT/04.01.0043	14,6V 25A : LIT/04.01.0043	29,4V 3A : LIT/04.01.0008

*BT

*BT

*BT



LIT/D24-20

LIT/D24-50

LIT/D24-100

LIT/D96-100

Layout/Terminals	M6	M8	M8	
Voltage	25.6 V	25.6 V	25.6 V	96 V
Capacity	20 Ah	50 Ah	100 Ah	100 Ah
Dimensions LxWxH	195 x 135 x 176 mm	318 x 215 x 165 mm	485 x 170 x 245 mm	400 x 900 x 300 mm
Weight	5,3 kg	12,5 kg	21,8 kg	125 kg
Max working current	20 A	50 A	100 A	100 A
Peak current	60 A	100 A	300 A	200 A
Charging current	< 10 A	< 25 A	< 50 A	< 50 A
Discharge cut off voltage	≤ 20 V	≤ 20 V	≤ 20 V	75 V
Inner resistance	≤ 60mΩ	≤ 20mΩ	≤ 30mΩ	≤ 160mΩ
Suitable charger	29,4V 5A : LIT/04.01.0054	29,4V 25A : LIT/04.01.0046	29,4V 25A : LIT/04.01.0046	

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*BT: Available with Bluetooth

LITHIUM-ION BATTERY



BAT/45579
Isomon BMS device
You need 1 Isomon device per battery.

You need 3V LiFePO4 cells, you can choose from:

- B-series for budget/best price
- Q-series for best quality in non-metallic housing
- M-series for durable metal housing

Place in serie to increase voltage, place in parallel to increase capacity. For example 24V/200Ah battery needs 16 cells of 3V/100Ah.

BAT/45936
Pacmon BMS device + cable type A-A and type A-B
You need 1 Pacmon device per battery.

BAT/45577
Blockmon (M8) BMS module with cable connector
You need 1 Blockmon or Longmon module per cell.

Customized solutions according to your requirements and demands.



Reference	Description
BAT/45577	Blockmon (M8) BMS module with cable connector
BAT/45578	Longmon BMS device with cable connector
BAT/45579	Isomon BMS device
BAT/45583	Cmon device with cable connector to suit Elcon/TC charger
BAT/45936	Pacmon BMS device + cable type A-A and type A-B



BUDGET

B-SERIES

Our budget series of lithium cells comes in 10 different capacities and has the best price.

Cell model	dimensions (L x W x H)	Nominal Capacity (Ah)	Nominal Voltage (V)	Internal Resistance (mΩ)	Weight	Continuous Discharging Current (C)
LIT/B3-20	103 mm x 41 mm x 165 mm	20Ah	3,2	<1,5	880	1C
LIT/B3-30	103 mm x 58 mm x 164 mm	30Ah	3,2	<1,5	1220	1C
LIT/B3-40	114 mm x 65 mm x 165 mm	40Ah	3,2	<1	1520	1C
LIT/B3-50	152 mm x 50 mm x 186 mm	50Ah	3,2	<1	1930	1C
LIT/B3-60	115 mm x 63 mm x 195 mm	60Ah	3,2	<1	2040	1C
LIT/B3-100	163 mm x 53 mm x 276 mm	100Ah	3,2	<1	3400	1C
LIT/B3-160	169 mm x 85 mm x 232 mm	160Ah	3,2	<0,8	5250	1C
LIT/B3-180	183 mm x 72 mm x 272 mm	180Ah	3,2	<0,8	5800	1C
LIT/B3-200	256 mm x 70 mm x 232 mm	200Ah	3,2	<0,6	6400	1C
LIT/B3-300	284 mm x 71 mm x 299 mm	300Ah	3,2	<0,8	9300	1C



LITHIUM-ION CELLS



Q-SERIES

High quality series of lithium cells in durable pvc housing.



Cell model	Length (mm)	Width (mm)	Height (mm)	Nominal Capacity (Ah)	Nominal Voltage (V)	Internal Resistance (mΩ)	Weight	Continuous Discharging Current (C)
LIT/Q3-35	128	49	148	35Ah	3,2	≤ 1	1500	2C
LIT/Q3-40	116	46	181	40Ah	3,2	≤ 1	1400	2C
LIT/Q3-50	226	41	115	50Ah	3,2	≤ 1	1700	2C
LIT/Q3-60	115	44	245	60Ah	3,2	≤ 1	2000	2C
LIT/Q3-70	142	50	217	70Ah	3,2	≤ 1	2500	2C
LIT/Q3-100	142	67	219	100Ah	3,2	≤ 0,9	3400	2C
LIT/Q3-180	180	71	280	180Ah	3,2	≤ 0,6	5700	2C
LIT/Q3-400	450	71	287	400Ah	3,2	≤ 0,4	13600	2C



Custom made battery for client with M-series cells.
Need help for some projects? Contact our technology team.



All chargers available upon request

M-SERIES

Most durable series in strong metal housing.
Up to 3C continuous discharging current.



	LIT/M3-3.5	LIT/M3-7	LIT/M3-8
Nominal voltage:	3.2 V	3.2 V	3.2 V
Nominal Capacity:	3.5 Ah	7 Ah	8 Ah
Dimensions (LxWxH):	43 x 20 x 68.2 mm	65 x 22 x 71.2 mm	65 x 18 x 97.2 mm
Weight:	116 g	202 g	235 g
Max. charging current (A):	1C (3.5A)	1C (7A)	1C (8A)
Max. discharging current (A):	3C (7A)	3C (14A)	3C (16A)
Resistance (mΩ):	< 20	< 13	< 12
Standard Charge-discharge current (0.3C, A):	1	2	2.4
Cycle life (0.3C Charge-discharge, 80% DOD):	2000	2000	2000
Charge working temperature range:	0° to 45°C	0° to 45°C	0° to 45°C
Discharge working temperature range:	-25° to +55°C	-25° to +55°C	-25° to +55°C



	LIT/M3-10	LIT/M3-12	LIT/M3-15	LIT/M3-36
Nominal voltage:	3.2 V	3.2 V	3.2 V	3.2 V
Nominal Capacity:	10 Ah	12 Ah	15 Ah	36 Ah
Dimensions (LxWxH):	65 x 22 x 104.5 mm	65 x 22 x 124.5 mm	90 x 22 x 113 mm	130 x 36 x 155 mm
Weight:	297 g	358g	442 g	1300 g
Max. charging current (A):	1C (10A)	1C (12A)	1C (15A)	1C (36A)
Max. discharging current (A):	3C (20A)	3C (24A)	3C (30A)	3C (108A)
Resistance (mΩ):	< 10	< 9	< 8	< 3
Standard Charge-discharge current (0.3C, A):	3	3	4.5	10.8
Cycle life (0.3C Charge-discharge, 80% DOD):	2000	2000	2000	2000
Charge working temperature range:	0° to 45°C	0° to 45°C	0° to 45°C	-10° to 45°C
Discharge working temperature range:	-25° to +55°C	-25° to +55°C	-25° to +55°C	-25° to +55°C



	LIT/M3-50	LIT/M3-60	LIT/M3-72	LIT/M3-100
Nominal voltage:	3.2 V	3.2 V	3.2 V	3.2 V
Nominal Capacity:	50 Ah	60 Ah	72 Ah	100 Ah
Dimensions (LxWxH):	120 x 45 x 187 mm	112 x 59 x 175 mm	112 x 59 x 206 mm	230 x 36 x 218 mm
Weight:	1750 g	1950 g	2350 g	3350 g
Max. charging current (A):	1C (50A)	1C (60A)	1C (72A)	1C (100A)
Max. discharging current (A):	3C (150A)	3C (180A)	3C (216A)	3C (300A)
Resistance (mΩ):	< 2	< 1.5	< 1	< 0.8
Standard Charge-discharge current (0.3C, A):	15	18	21.6	30
Cycle life (0.3C Charge-discharge, 80% DOD):	2000	2000	2000	2000
Charge working temperature range:	-10° to 45°C	-10° to 45°C	-10° to 45°C	-10° to 45°C
Discharge working temperature range:	-25° to +55°C	-25° to +55°C	-25° to +55°C	-25° to +55°C



LIFEPO4 PALLET TRUCK BATTERY



ADVANTAGES

- 100% Maintenance Free
- Up to 30% energy savings
- Opportunity charging = no need to have exchange battery
- Can be charged in 1 hour (with adapted charger)
- No acid or hydrogen gasses
- 2000 Cycles at 80% DOD with 80% capacity granted



THE BATTERY IS SUPPLIED WITH :

- Battery connector (to be specified)
- (external) LED screen: voltage, Temp., RSOC, Current
- Lock-out to connect of the pump
- Spacers to mount insert into a bigger container
- Charger : efficiency > 90%
 - 24V 40A (1500W Monophase) : Charging time < 6 hours (UT/04.01.0010)
 - 24V 80A (3000W Monophase) : Charging time < 3 hours (UT/04.01.0001)
 - 24V 200A (6000W Triphase) : Charging time 1 hour (on demand)
Please mind that with the 24V 200A charger, a different cabling and battery design will be required.



LIT/24-200 - SPECIFICATIONS

Reference	LIT/24-200
Nominal voltage	24 V
Capacity	200 Ah
Dimensions	L 605 mm x W 155 mm x H 490 mm -> insert
Weight	ca 62kg (container included)
Operation temperature	between 0 – 50°C
Protection against	Over Voltage/Under voltage/Over Current/Short Circuit/Over Temperature/Under temperature

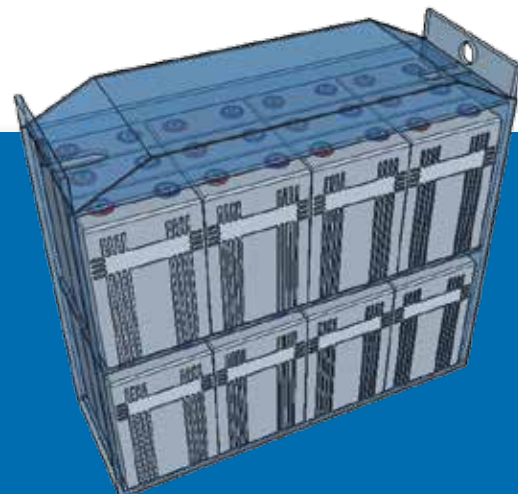
Suitable for following examples:

BT	645x196x570h	24V 160 - 165Ah/c5
BT	645x245x570h	24V 210 - 225Ah/c5
JUNGHEINRICH	624x212x573h	24v 180Ah/c5
JUNGHEINRICH	624x212x627h	24v 250Ah/c5
JUNGHEINRICH	660x145x590h	24v 150Ah/c5
JUNGHEINRICH	655x145x685h	24v 200Ah/c5
LINDE	624x284x537h	24V 270Ah/c5
LINDE	786x210x630h	24V 375Ah/c5
LINDE	624x212x627h	24V 250Ah/c5
LINDE	624x212x537h	24V 180Ah/c5
LINDE	648x148x595h	24V 150Ah/c5
LINDE	624x284x627h	24V 375Ah/c5
STILL	624x284x627h	24V 375Ah/c5
STILL	624x284x627h	24V 250Ah/c5
STILL	624x284x627h	24V 200Ah/c5
...		
And fits in more 50 different types of handpallet trucks!		



ALSO AVAILABLE: LIT/24-300 & LIT/24-400

Reference	LIT/24-300	LIT/24-400
Nominal voltage	25,8V	25,8V
Capacity	300Ah	400Ah
Dimensions insert	600 x 213 x 537mm	552 x 400 x 400mm





LITHIUM-ION BATTERIES

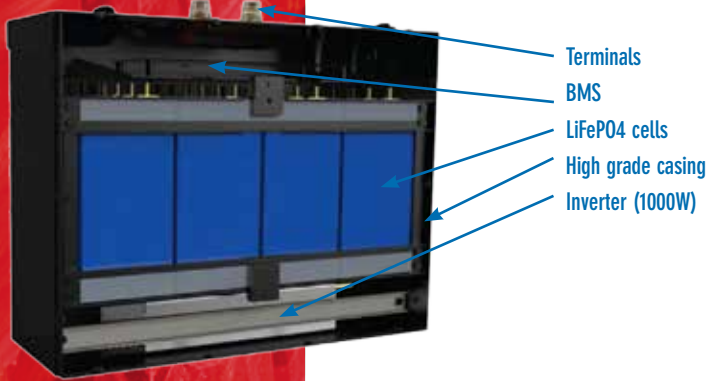
SMART LIFEPO4 BATTERY DESIGN FOR OUTDOOR LIFE

The lithium iron phosphate battery is generally considered the safest of all lithium-iron battery types. Because of the solid electrolyte and the cell chemistry LiFePO4 cells are considered to be intrinsically safe. A built-in self-monitoring function detects any deviation within the battery.

REFERENCE : LIT/D12-100 INV

The batteries are supplied with a LiFePO4 charger & patented BMS (Battery management System) that can monitor and equalize each single cell during charge & discharge. (LiFePO4=Lithium iron phosphate)

- 80% weight saving
- Longer service life
- No memory effect
- Environmentally friendly
- Deep Depth of Discharge
- High discharge rate capacity
- Extremely safe&stable chemistry
- 2000 Cycles at 80% DOD with 80% capacity granted
- Display showing : voltage, current, SOC & temp.



SPECIFICATIONS

Reference	LIT/D12-100 INV
Nominal Voltage	12,8V
Capacity	100Ah
DC max discharging	20A
DC max charging	100A
AC Output	250V
AC Power	1000 W max
Dimensions	L 330mm x W 130mm x H 300mm
Weight	ca 15,8kg
Operation temperature	Between 0 - 55°C

ALSO AVAILABLE:

Reference	Dimensions	Voltage	Capacity	Inverter	LCD
LIT/D12-100 INV	330 x 130 x 300 mm	12V	125Ah	1000W	oui
LIT/D24-125 INV	520 x 269 x 220 mm	24V	125Ah	3000W	oui
LIT/D48-75 INV	520 x 269 x 220 mm	48V	75Ah	3000W	oui





POUCHES

We also have an assortment of LiFePO4 pouches. Ask for availability of your needed capacity.



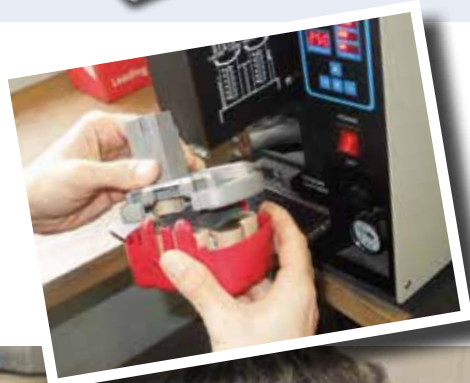
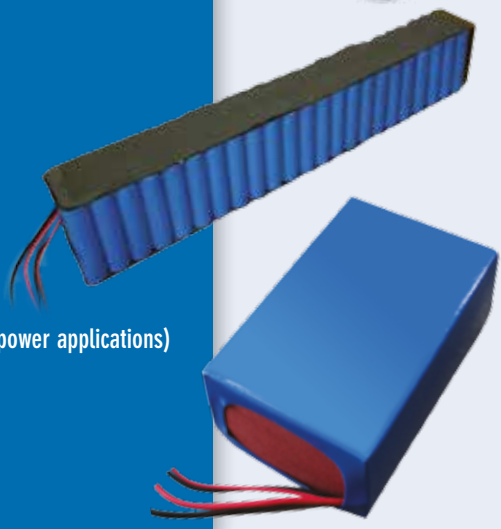
Battery Packs made on your demand!

CUSTOMIZED LI-ION SOLUTIONS

CUSTOMIZED LI-ION BATTERY PACKS

According to your specifications :

- Li-NMC-02 or LiFePO4 chemistry
- Cylindrical or pouch cell
- Voltage < 48V
- Capacity up to 40Ah
- Different C-rates (for energy storage or power applications)
- Build-in protection PCB, cell balancing
- Dimensions following demand
- Soft PVC or Aluminium housing



CELLS

Reference	Description				
LIT/02.01.0001	LiNMC02 CELL 18650	3,6V	1500MAH	15C	
LIT/02.01.0005	Li(NMC)02 CELL 18650	3.6V	2200MAH	1C	
LIT/02.01.0006	LiMn02 CELL 18650	3.7V	2600MAH	0.5C	
LIT/02.01.0013	LiMn02 CELL 18650	3,6V	2200MAH	2C	SAMSUNG
LIT/02.01.0014	LiMn02 CELL 18650	3,7V	2600MAH	2C	SAMSUNG
LIT/02.02.0002	LiFePO4 CELL 18650	3,2V	1100MAH	10C	
LIT/02.02.0004	LiFePO4 CELL A123 18650	3,3V	1100MAH	30C	
LIT/02.01.0003	LiMn02 CELL 26650	3,7V	3500MAH	5C	
LIT/02.01.0010	LiNMC02 CELL 26650	3,6V	3000MAH	10C	
LIT/02.02.0001	LiFePO4 CELL 26650	3,2V	2500MAH	10C	
LIT/02.02.0003	LiFePO4 CELL A123 26650	3,3V	2500MAH	30C	ANR26650M1A

BMS

Reference	Description			
LIT/04.01.0094	PCB FOR 4S LiMn02	14.8V	10A	1 PORT
LIT/04.01.0028	PCB FOR 7S LiMn02	25.20V	10A-30A	1 PORT
LIT/04.01.0029	PCB FOR 10S LiMn02	36V	10A-30A	1 PORT
LIT/04.01.0073	PCB FOR 13S LiMn02	48V	15A-30A	1 PORT
LIT/04.01.0074	PCB FOR 13S LiMn02	48V	50A-100A	1 PORT
LIT/04.01.0123	BMS FOR 14S LiMn02	360V	15A-30A	1 PORT
LIT/04.01.0136	BMS FOR 10S LiMn02	36V	50A-100A	1 PORT
LIT/04.01.0096	BMS FOR 2S LiFePo4	6.4V	8A-15A	2 PORT 8A
LIT/04.01.0097	BMS FOR 4S LiFePo4	12.8V	40A-80A	2 PORT 8A
LIT/04.01.0105	ACTIVE BALANCING PCB FOR 8S LiFePO4	24V	20A-40A	1 PORT
LIT/04.01.0107	ACTIVE BALANCING PCB FOR 4S LiFePO4	12V	20A-40A	1 PORT



E-BIKE BATTERIES

All batterypacks

for electric bikes (E-bikes), scooters, wheelchairs, ...

We can supply all types of Lithium-Ion batteries for electric bikes, wheelchairs, ...

In comparison with other rechargeable batteries, rechargeable Lithium-Ion batteries provide better performances such as : higher capacity, higher energy density, no memory effect, longer cycle life, faster charging and low self discharge.

Therefore Lithium-Ion batteries offer you longer working time/ autonomy, smaller sizes, lighter weight & shorter charging time.

The batteries are available in aluminum and plastic housing.



The 6 most common types are :

1

FROG - MODEL
(saddle fixing type)



2

SLIVER FISH - MODEL
(slide-in type)



3

REAR RACK - MODEL
(back carrier type)



4

PVC REAR RACK - MODEL
(back carrier type)



5

KETTLE - MODEL
(for water kettle position)



6

PVC KETTLE - MODEL
(for water kettle position)



Li-ion (Lithium-Ion) batteries have the following advantages in comparison with other older battery technologies :

- Longer lifetime = **more cycles !**
- Lighter in weight : **3 x lighter** than lead-acid batteries
- **Better for the environment** than lead-acid : ECO friendly
- The complete battery capacity is available (no memory-effect)
- Flat discharge characteristic, nominal tension is kept regardless the state of charge
- Intermediate charging is no problem !



E-BIKE BATTERIES

The Lithium-Ion batterypacks are available in LiFeP04 or in LiMn02 technology.

This means that the battery is assembled with battery cells of the following chemical technology :

LiFeP04 = Lithium Iron Phosphate

- Longer lifetime : 2000 cycles (80%DOD)
- Smaller energy density
- Very safe in use

LiMn02 = Lithium Manganese Oxide

- Lighter in weight
- Lifetime : 800 cycles (80% DOD)
- Higher energy density
- Cheaper
- Safe



Battery charger included

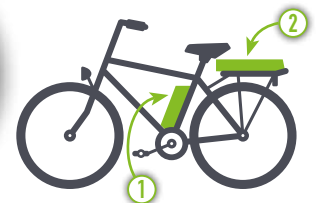


*Optional : Battery Holder

Can be used together with the Rear Rack Type
 To be used with Rear rack with contr. case :
 LIT/01.03.0004
 To be used with Rear rack :
 LIT/01.03.0006 (standard length)
 LIT/01.03.0005 (adapted length)



Double your capacity!



On demand we can double the capacity by installing a **SECONDARY BATTERY** on your e-bike. Contact us for more information and conditions.

Model	LiFePO4 = Lithium Iron Phosphate – batteries			LiMnO2 = Lithium Manganese Oxide – batteries		
	24V	36V		24V	36V	48V
1 Frog	 10Ah 260 x 150 x 85 mm LIT/01.02.0003	 12Ah 260 x 150 x 85 mm LIT/01.02.0016		 10Ah 260 x 150 x 85 mm LIT/01.01.0003	 10Ah 260 x 150 x 85 mm LIT/01.01.0009	 11Ah 245 x 105 x 75 mm LIT/01.01.0054
2 Sliver Fish	 10Ah 88 x 86 x 355 mm LIT/01.02.0006	 10Ah 75 x 110 x 425 mm LIT/01.02.0002	 12Ah 85 x 125 x 400 mm LIT/01.02.0007	 10Ah 88 x 86 x 285 mm LIT/01.01.0007	 10Ah 75 x 110 x 335 mm LIT/01.01.0002	 14Ah 75 x 110 x 385 mm LIT/01.01.0010
3 Rear Rack	 10Ah with contr. case 65 x 150 x 365 mm LIT/01.02.0005	 10Ah with contr. case 65 x 150 x 435 mm LIT/01.02.0001	 12Ah 69 x 149 x 395 mm LIT/01.02.0008	 10Ah with contr. case 65 x 150 x 345 mm LIT/01.01.0006	 10Ah 69 x 149 x 275 mm LIT/01.01.0005	 10Ah with contr. case 55 x 149 x 370 mm LIT/01.01.0001
4 PVC Rear Back	 10Ah 55 x 150 x 340 mm LIT/01.02.0015	-	-	-	 10Ah 340 x 56 x 148 mm LIT/01.01.0053	-
5 Kettle	-	-	-	 10Ah 90 x 320 mm LIT/01.01.0044	 10Ah 90 x 390 mm LIT/01.01.0045	-
6 PVC Kettle	-	-	-	-	 10Ah 338 x 130 x 87 mm LIT/01.01.0049	 12Ah 338 x 130 x 87 mm LIT/01.01.0050
					 14Ah 338 x 130 x 87 mm LIT/01.01.0051	 14Ah 338 x 130 x 87 mm LIT/01.01.0052