



CYCLIC BATTERIES

LITHIUM-ION BATTERIES

Lithium-Ion

**Only
benefits**



**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.



CYCLIC BATTERIES

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.

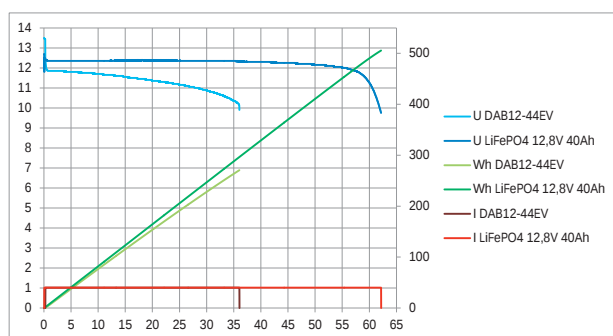
ADVANTAGES.

- 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)

**SERIAL
CONFIGURATION
POSSIBLE
UP TO 4S**



**SERIAL
CONFIGURATION
POSSIBLE
NO LIMITS**

LIT/04.01.0085

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



	LIT/D12-7,5	LIT/D12-10	LIT/D12-12	LIT/D12-15
Layout/Terminals	T1	T1	T1	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	7,5 A	10 A	12 A	15 A
Peak current	22,5 A	30 A	36 A	45 A
Charging current	< 5 A	< 5 A	< 10 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

plug-and-play solutions



	LIT/D12-20	LIT/D12-24	LIT/D12-25	LIT/D12-30N
Layout/Terminals	M5	M8	M5	M8
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	4,2 kg
Max working current	20 A	24 A	25 A	30 A
Peak current	60 A	72 A	75 A	90 A
Charging current	< 5 A	< 6 A	< 6 A	< 5 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



	LIT/D12-30	LIT/D12-40	LIT/D12-60	LIT/D12-80
Layout/Terminals	M6	M6	M8	M8
Voltage	12.8 V	12.8 V	12.8 V	12.8 V
Capacity	30 Ah	40 Ah	60 Ah	80 Ah
Dimensions LxWxH	195 x 130 x 182 mm	195 x 130 x 182 mm	260 x 169 x 215 mm	318 x 165 x 215 mm
Weight	3,8 kg	5,7 kg	10,5 kg	14,8 kg
Max working current	30 A	40 A	50 A	100 A
Peak current	90 A	120 A	170 A	350 A
Charging current	< 15 A	< 20 A	< 50 A	< 80 A
Discharge cut off voltage	≤ 10V	≤ 10V	≤ 10V	≤ 10 V
Inner resistance	≤ 30mΩ	≤ 50mΩ	≤ 20mΩ	≤ 20mΩ
Suitable charger	14,6V 10A : LIT/04.01.0080	14,6V 10A : LIT/04.01.0080	14,6V 25A : LIT/04.01.0043	14,6V 25A : LIT/04.01.0043



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	M6	T12
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	36 kg	2,6 kg
Max working current	100 A	100 A	80 A	10 A
Peak current	350 A	350 A	350 A	30 A
Charging current	< 100 A	< 100 A	< 60 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



LIT/D24-20

LIT/D24-50

LIT/D24-100

Layout/Terminals	M6	M8	M8
Voltage	25.6 V	25.6 V	25.6 V
Capacity	20 Ah	50 Ah	100 Ah
Dimensions LxWxH	196 x 135 x 176 mm	197 x 165 x 175 mm	485 x 170 x 245 mm
Weight	5,3 kg	12,5 kg	21,8 kg
Max working current	20 A	50 A	100 A
Peak current	60 A	140 A	300 A
Charging current	< 10 A	< 50 A	< 100 A
Discharge cut off voltage	≤ 20 V	≤ 20 V	≤ 20 V
Inner resistance	≤ 60mΩ	≤ 20mΩ	≤ 30mΩ
Suitable charger	29,4V 5A : LIT/04.01.0054	29,4V 25A : LIT/04.01.0046	29,4V 25A : LIT/04.01.0046

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.

LITHIUM-ION BATTERY



Customized solutions according to your requirements and demands.



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.

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



CYCLIC BATTERIES

LITHIUM-ION CELLS



Q-SERIES

High quality series of lithium cells in durable pvc housing.

QUALITY

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



CYCLIC BATTERIES

LITHIUM-ION BATTERIES

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



**FITS
IN 50+
MODELS**

THE BATTERY IS SUPPLIED WITH :

- Battery connector (to be specified)
 - LED indicator : Green/Yellow/Red
 - Lock-out to connect of the pump
 - 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.

SPECIFICATIONS

Reference	LIT/ 24V 200Ah/C1
Nominal voltage	25,8 V
Capacity	200 Ah
Dimensions	L 600 mm x W 145 mm x H 537 mm -> insert
Weight	ca 100kg (container included)
Operation temperature	between 0 – 50°C
Protection against	Over Voltage/Under voltage/Over Cuurent/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 : 24V - 300Ah

- Reference : LIT/ 24V 300Ah/C1
- Nominal voltage : 25,8V
- Capacity : 300Ah
- Dimensions insert : 213 x 600 x h537 mm

Battery Packs made on your demand!

CUSTOMIZED LI-ION SOLUTIONS

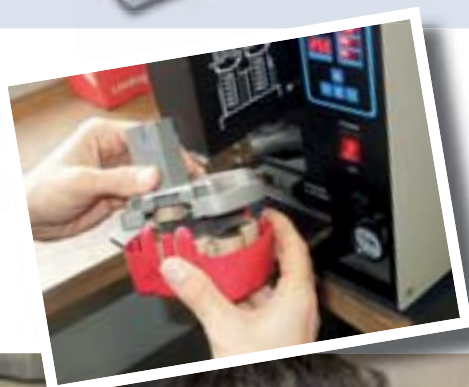
POUCHES

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

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



CYCLIC BATTERIES

E-BIKE BATTERIES

All batterypacks for electric bikes (E-bikes), scooters, 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.

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



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 !



CYCLIC BATTERIES

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

top
quality

Many
more models
available upon
request. Ask for our
specifications.

Battery charger included



BATTERY APP

If you like, we can install an extra option on your refitted battery : **The battery app**.
So with this option the e-bike battery will communicate through Bluetooth with your smartphone.
With an app (iPhone and Android) you can **monitor in realtime** your battery state.



*Optional : Battery Holder

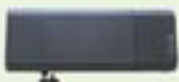
Can be used together with the Rear Rack Type
To be used with Rear rack with contr. case :
LIT/01.03.0004
To be used with Rear rack :
LIT/01.03.0006 (standard length)
LIT/01.03.0005 (adapted length)



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.

	LiFePO4 = Lithium Iron Phosphate – batteries			LiMnO2 = Lithium Manganese Oxide – batteries			
Model	24V	36V		24V	36V	48V	
1 Frog	 10Ah 260 x 150 x 85 mm LIT/01.02.0003	 12Ah		 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 373 mm LIT/01.02.0006	 10Ah 75 x 110 x 440 mm LIT/01.02.0002	 12Ah 85 x 125 x 400 mm LIT/01.02.0007	 10Ah 88 x 86 x 305 mm LIT/01.01.0007	 10Ah 75 x 110 x 325 mm LIT/01.01.0002	 14Ah 75 x 110 x 395 mm LIT/01.01.0010	-
3 Rear Rack	 10Ah with contr. case 65 x 148 x 370 mm LIT/01.02.0005	 10Ah with contr. case 65 x 148 x 435 mm LIT/01.02.0001	 12Ah 69 x 148 x 395 mm LIT/01.02.0008	 10Ah 57 x 148 x 345 mm LIT/01.01.0006	 10Ah 69 x 148 x 275 mm LIT/01.01.0005	 10Ah with contr. case 55 x 149 x 370 mm LIT/01.01.0001	-
					 12Ah 69 x 148 x 340 mm LIT/01.01.0011	 14Ah 69 x 148 x 340 mm LIT/01.01.0012	
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/01.01.0052
					 14Ah 338 x 130 x 87 mm LIT/01.01.0051		