



LEOCH INTERNATIONAL TECHNOLOGY LIMITED

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Visit www.leoch.com for more information.



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LB-LI-MP-PB-EN-V1.0-202308

LEOCH LITHIUM MOTIVE POWER

Provide Reliable and
Innovative Power Supply

www.leoch.com



Large scale automated production line



Company Profile

Founded in 1999, Leoch International (stock code: 00842.HK) is a global leading power supply solutions provider. Headquartered in Singapore, Leoch is a participant in the development of several international industry standards and Chinese national standards. With 14 worldwide manufacturing bases covering an area of 1.5 million square meters, over 70 local service companies, and 13,000 employees including over 1,500 R&D and technical personnel, Leoch International provides industrial and commercial energy storage solutions, ranging from R&D, manufacturing, sales, and services in over 130 countries and regions worldwide. Leoch International specializes in providing professional power supply solutions for industrial and commercial applications worldwide. The company's products and services are focused on:

- Energy storage systems;
- Backup power supplies;
- Automotive start-stop power supplies;
- Motive power supplies;

1500+
R&D Staffs

20+
Years of Industrial Experience

3
R&D Centers

10
GWH production Capacity

60+
Standard Settings

1000+
Patents



Leoch manufacturing team has experience in large-scale lithium battery manufacturing and the ability of long-term stable product delivery. The company's lithium battery production line has achieved a high degree of automation and intelligence in production. By introducing a new EMS intelligent system and integrating data acquisition channels (RFID, PLC, IPC, PC, etc.) to cover the entire factory manufacturing site, it can ensure real-time, accurate, and comprehensive collection of big data, multi-dimensional protection of product stability, consistency, service, which helps customers establish safe and reliable energy storage systems



LEOCH Golf Cart Lithium Battery



0

Maintenance Free

Good safety, high consistency,
longer life

BMS

Intelligent Management

Intelligent management system,
Built-in reliable BMS, health status
real-time monitoring

-4-131°F

Work Environment

Wide operating temperature range,
discharge operating **-20°C~55°C**

5000+

Life Cycles

More than **5000** cycles, **5 years** of
warranty, **15 years** of design life

5 years

Warranty

Automatic intelligent production line,
processing information can be traced

45/30 days

Efficient Delivery

45 days for customized delivery, **30**
days for standard product delivery



Applications

- Golf Cart
- Lifted golf car
- Resort car

Specifications

Model	GP48-80	GP48-105	GP48-150	GP48-200	GP48-210	GP51-105	GP57-150	GP76-150	GP76-200
Battery chemical material	LFP								
Energy(Wh)	3936	5040	7200	9600	10080	5376	8640	11520	15360
Capacity(Ah)	82	105	150	200	210	105	150	150	200
Nominal voltage(V)	48	48	48	48	48	51.2	57.6	76.8	76.8
Charging limited voltage(V)	54.75	54.75	54.75	54.75	54.75	58.4	65.7	87.6	87.6
Discharge ending voltage(V)	37.5	37.5	37.5	37.5	37.5	40	48	60	60
Max continuous discharge current(A)	150	105	150	200	200	105	150	150	200
Peak discharge current(A/s)	380@ 30S	380 @ 30S	400 @ 30S	400 @ 30S	480@ 30S	350@ 30S	350@ 30S	400@ 30S	450 @ 30S
Max continuous charging current(A)	22	22	22	22	22	22	22	22	22
L*W*H(mm)	482.6*353*263	527.6*310*263	540*360*264	680*420*264	606.6*454*250	500*343*268	680*420*242	680*420*275	1100*290*312
Weight(kg)	45	45	65	85	88.5	48	78	120	138
Discharge temperature(°C)	-20 ~ 55°C								
Charge temperature(°C)	0 ~ 50°C								
Storage temperature(°C)	-20 ~ 55°C								
Function(optional)	Communication (charging and discharging), Bluetooth, 4G module, Display screen, Charger								
Cycle life	5000Cycle								
IP Rating	IP65								
Self-discharge per (month)	≤3%								

Battery sizes can be customised to meet a number of national test standards, etc.

UN38.3 **CE**

★ China sales office

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LB-LI-GC-PP-EN-V4.0-202308

LEOCH AGV Lithium Battery



5000+

Life Cycles

More than **5000** cycles, **5 years** of warranty, **15 years** of design life

BMS

Intelligent Management

Intelligent management system,
Built-in reliable BMS, health status
real-time monitoring

-4-131°F

Work Environment

Wide operating temperature range,
discharge operating **-20°C~55°C**

0

Maintenance Free

Maintenance free, no need for water
top-ups or electrolyte checks

5 years

Warranty

Automatic intelligent production line,
processing information can be traced

70%

Lower overall cost

Save 70% expenses in 5 years



AGV

Automated Guided Vehicle

Specifications

Model	AP24-200	AP48-30	AP48-210	AP60-30	AP60-20	AP72-27
Battery chemical material	LFP					
Energy(KWh)	5.12	1.536	10.08	1.92	1.28	1.9872
Capacity(Ah)	200	30	210	30	20	27
Nominal voltage(V)	25.6	51.2	48	64	64	73.6
Charging limited voltage(V)	29.2±0.2	58.4	54.75	73±0.2	73±0.2	83.95±0.2
Discharge ending voltage(V)	20	40	37.5	50	50	57.5
Max continuous discharge current(A)	100	30	200	30	20	50
Peak discharge current(A/s)	120(<1s)	40(<3s)	240(<1s)	40(<1s)	30(<1s)	60(<3s)
Max continuous charging current(A)	100	30	200	30	10	15
L*W*H(mm)	645*183*540	170*180*300	454*539*250	235*155*290	145*175*290	310*158*266
Weight(kg)	65	16	85	17	11.3	17
Discharge temperature(°C)	-20 ~ 55°C					
Charge temperature(°C)	0 ~ 50°C					
Storage temperature(°C)	-20 ~ 55°C					
Function(optional)	Communication (charging and discharging), Bluetooth, 4G module, Display screen, Charger					
Cycle life	5000Cycle					
IP Rating	IP65					
Self-discharge per (month)	≤3%					

Battery sizes can be customised to meet a number of national test standards, etc.

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LB-LI-AGV-PP-EN-V1.0-202308



LEOCH Traction Lithium Battery



95%

Fast Charging

Up to **95%** energy conversion rate with fast charging

0

Pollution

Recyclable green batteries without pollution and emission during usage

95%

Energy Saving

Energy conversion rate up to **95%**



High Level Security Standard

With "lock confirmation" and "system-wide emergency power off" functions

10 years

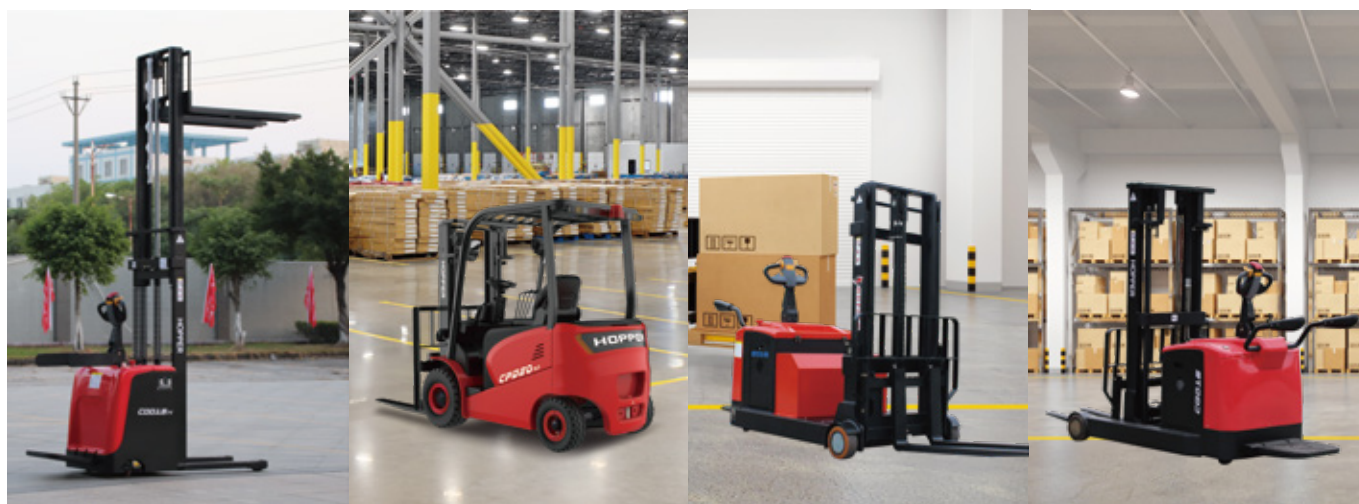
Long Cycle Life

5000 cycles & over **10-year** long life

0

Maintenance Free

No need manual maintenance with fully enclosed structure



Electric pallet trucks

Heavy duty counterbalance forklifts

Small & medium counterbalance forklifts

Electric order pickers
Electric walkie stacker

Specifications

Model	FP24-100	FP24-105	FP24-200	FP48-105	FP48-60	FP72-28	FP72-44
Battery chemical material	LFP						
Energy(KWh)	2.56	2.688	5.12	5.376	3.072	2.0608	3.2384
Capacity(Ah)	100	105	200	105	60	28	44
Nominal voltage(V)	25.6	25.6	25.6	51.2	51.2	73.6	73.6
Charging limited voltage(V)	29.2	29.2	29.2	58.4	58.4	83.95	83.95
Discharge ending voltage(V)	20	20	20	40	40	57.5	57.5
Max continuous discharge current(A)	100	100	100	100	120	56	75
Peak discharge current(A/s)	110(<3s)	180(<3s)	120(<3s)	120(<1s)	300(<30s)	60(<3s)	80(<3s)
Max continuous charging current(A)	100	100	20	50	60	24	24
L*W*H(mm)	340*330*280	345*245*240	495*290*268	585*328*234	329*567*235	534*278*168	529*278*228
Weight(kg)	24	20	45	50	37	19	25
Discharge temperature(°C)	-20 ~ 55°C						
Charge temperature(°C)	0 ~ 50°C						
Storage temperature(°C)	-20 ~ 55°C						
Function(optional)	Communication (charging and discharging), Bluetooth, 4G module, Display screen, Charger						
Cycle life	5000Cycle						
IP Rating	IP65						
Self-discharge per (month)	≤3%						

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