

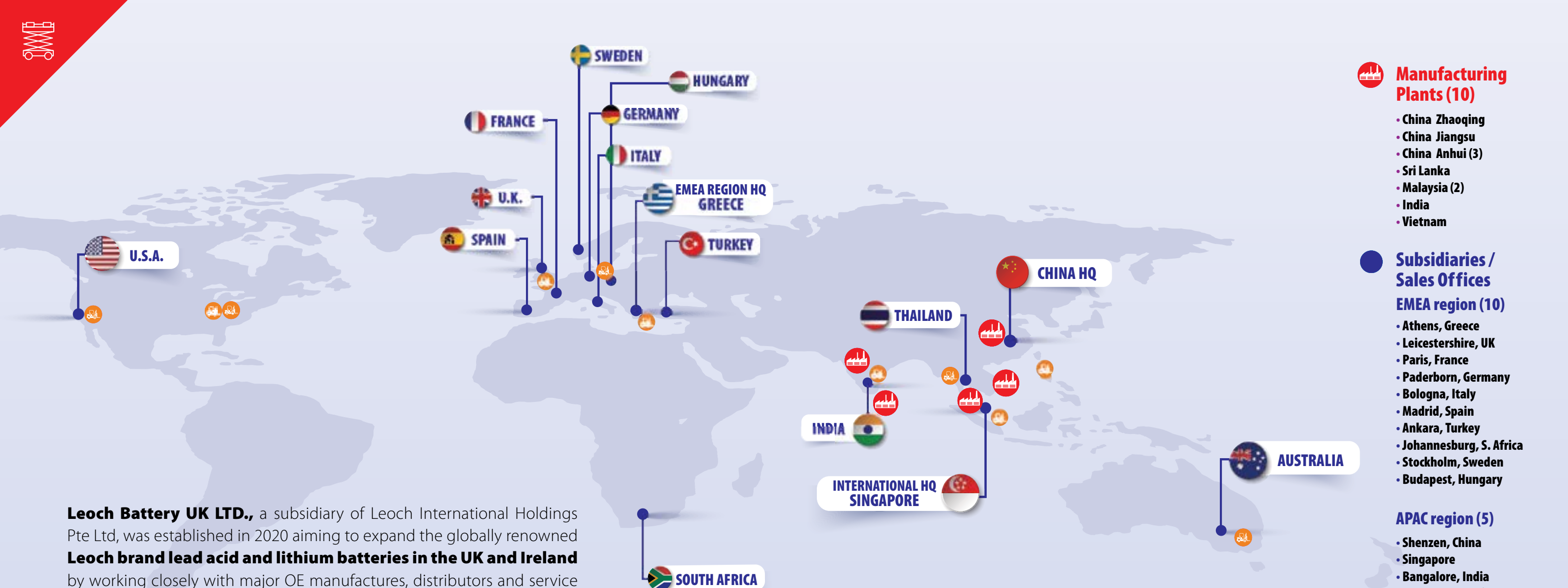


# REACHING NEW **HEIGHTS** in reliable power

## Series:

- ▶ **Flooded Flat Plated**  
DT Series
- ▶ **Deep Cycle AGM**  
LDC series
- ▶ **Lithium-Ion 12V**  
LFeLi series





- Manufacturing Plants (10)**
- China Zhaoqing
  - China Jiangsu
  - China Anhui (3)
  - Sri Lanka
  - Malaysia (2)
  - India
  - Vietnam

- Subsidiaries / Sales Offices EMEA region (10)**
- Athens, Greece
  - Leicestershire, UK
  - Paris, France
  - Paderborn, Germany
  - Bologna, Italy
  - Madrid, Spain
  - Ankara, Turkey
  - Johannesburg, S. Africa
  - Stockholm, Sweden
  - Budapest, Hungary

- APAC region (5)**
- Shenzhen, China
  - Singapore
  - Bangalore, India
  - Sydney, Australia
  - Bangkok, Thailand

**Los Angeles, USA**

● Subsidiaries / Sales Offices    
 🏭 Manufacturing Plants    
 🏠 Warehouses

**Leoch Battery UK LTD.**, a subsidiary of Leoch International Holdings Pte Ltd, was established in 2020 aiming to expand the globally renowned **Leoch brand lead acid and lithium batteries in the UK and Ireland** by working closely with major OE manufactures, distributors and service providers as well as B2B customers who use our batteries.

Leoch retains ten (10) regional manufacturing plants located in **PRC, Malaysia, Sri Lanka, India and Vietnam**, producing mainly reserve power batteries, SLI batteries and motive power batteries with an annual production capacity of over 24GWH / year.

## Your Global Battery Partner

<b>1.75b</b>	<b>10</b>	<b>24</b>	<b>16</b>	<b>14.000</b>	<b>105</b>	<b>3.000</b>
US \$ Annual Sales	Manufacturing Plants	GWH Production Capacity per Year	Subsidiaries and Sales Offices Worldwide	Employees Worldwide	Production Lines	Customers around the World

## ...covering your needs for aerial work platforms

**Leoch provides batteries that feature long service life, fit & forget design and deep cycling capabilities. So whether you're looking to power a scissor lift, cherry picker or a boom, from major construction projects to maintaining industrial facilities, we will have a solution to suit your needs.**





# Flooded Flat Plated DT series



**-20°C – +50°C**

TEMPERATURE RANGE

**Up to 6 months at 25°C**

SELF-DISCHARGE

**Wet Cell**

TECHNOLOGY

**Up to 700 cycles**

NUMBER OF CYCLES AT 80% DOD (DOWN TO 60% RCAP)

Leoch Flooded Deep Cycle batteries, DT series is a collection of flooded serviceable heavy-duty, ranging from 6 & 12 volt. Optimized for motive and industrial deep cycle applications with power capabilities that range from 170Ah to 260Ah. Engineered using enhanced SiO<sub>2</sub>-PVC Nano Grade separators and advanced TTP welding techniques, technology, and flat plate design, they cover any requirement of motive and in general deep cycle applications and offer up to 700 cycles at 80% DoD.

## GENERAL FEATURES

**PSoC**  
ENDURANCE

Designed and optimized for cyclic intensive and PSoC motive applications

**SAFETY**

PP (Polypropylene) casing, for increased strength and added safety

**SEPARATOR**

Enhanced SiO<sub>2</sub>-PVC Nano Grade separators and advanced TTP welding technology for maximum performance and durability

**LONG SERVICE LIFE**

Special pasting formula ensures long service life

**NO LEAKAGE**

Proprietary design refilling plugs with special construction, minimizing water loss

**AIR PERMEABILITY**

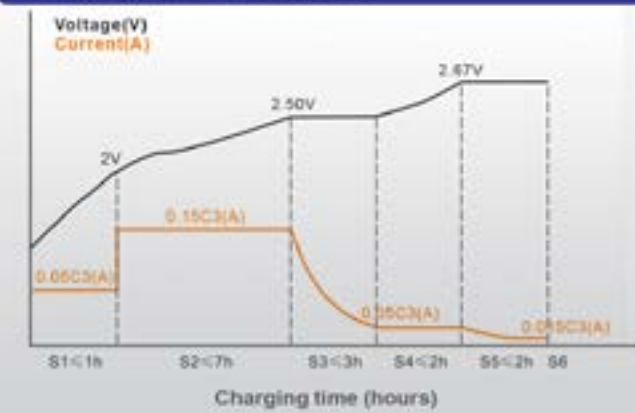
Refilling plugs with special construction for reduced water loss over usage time

## BATTERY SPECIFICATIONS

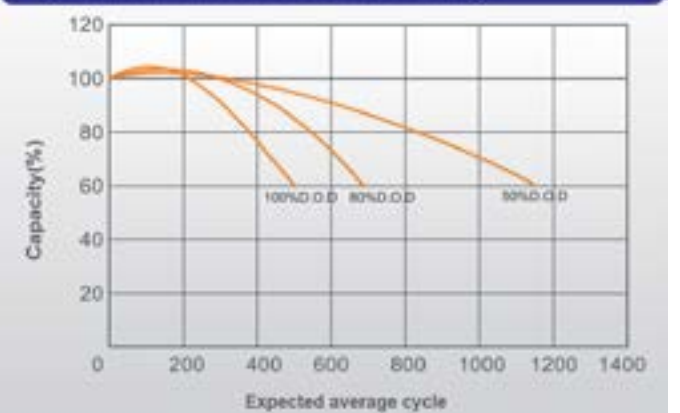
Model	Nominal Voltage (V)	Rated Capacity (AH)		Reserve Capacity (min)		Approx. Dimensions						Approx Weight		Terminal Type		
		20 HR	5HR	@25 Amps	@75 Amps	Length		Width		Height		Total Height	kg		lbs	
						mm	in.	mm	in.	mm	in.					
DT606	6	210	175	380	105	260	10.24	180	7.09	248	9.76	279.5	11.00	26.5	58.4	DT-M8 (A)
DT106	6	225	185	445	115	260	10.24	180	7.09	248	9.76	279.5	11.00	28.6	63.1	DT-M8 (A)
DT126	6	240	195	485	130	260	10.24	180	7.09	248	9.76	279.5	11.00	29.7	65.5	DT-M8 (A)
DT146	6	260	215	530	145	260	10.24	180	7.09	248	9.76	279.5	11.00	30.4	67	DT-M8 (A)
DT-J305	6	330	271	711	195	296	11.65	176	6.93	343	13.5	366	14.41	42	92.6	DT-5/16
DT-L16	6	420	344	850	220	296	11.65	176	6.93	402	15.83	425	16.73	52	114.7	DT-5/16
DT1275	12	120	150	280	102@56Amps	328	12.91	180	7.09	248	9.76	279.5	11.00	36.7	80.9	DT-M8 (A)

## PERFORMANCE CHARACTERISTICS

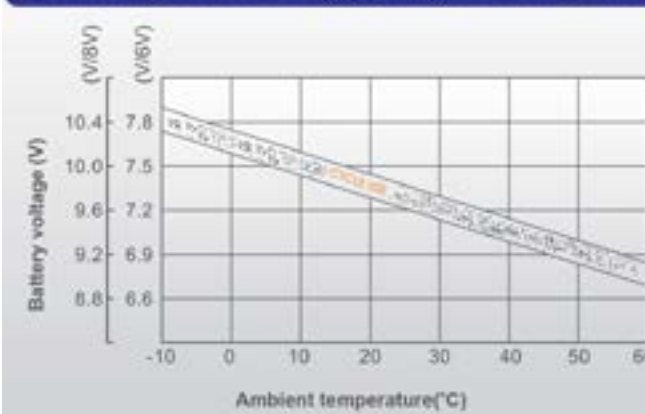
Charging characteristic (25°C)



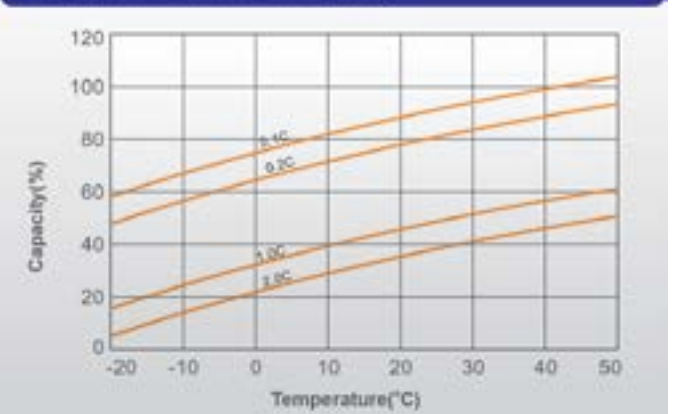
Cycle life in relation to depth of discharge



Relationship between charging voltage and temperature



Temperature effects on capacity





# Deep Cycle AGM LDC series



**-15°C – +50°C**

TEMPERATURE RANGE

**Up to 6 months at 25°C**

SELF-DISCHARGE

**AGM**

TECHNOLOGY

**1000 cycles**

NUMBER OF CYCLES AT 80% DOD

The best AGM battery on the market! The Leoch LDC range has 6 and 12 volt batteries offers superior performance with AGM technology, providing a long-life and super-fast power solution for a multitude of applications in industrial and lifestyle markets. The LDC range is uniquely designed for deep cycle performance with a positive plate formula to minimise water consumption and provide a long service life at 1,000 cycles at 60% DoD (Depth of Discharge).

## GENERAL FEATURES



LONG SERVICE LIFE

Thick plates using a special pasting formula and low SG ensures long service & cyclic life



SAFETY

Unique one-way vent valve design to minimize water loss & increase safety



SEPARATOR

Double separator configuration: Long cycle life & High energy density



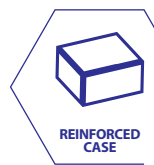
PSoC ENDURANCE

Designed and optimized for cyclic intensive and PSoC motive applications



DEEP CYCLE

Special mixture of carbon and additional proprietary additives in the negative active material to deliver superior cycling performance



REINFORCED CASE

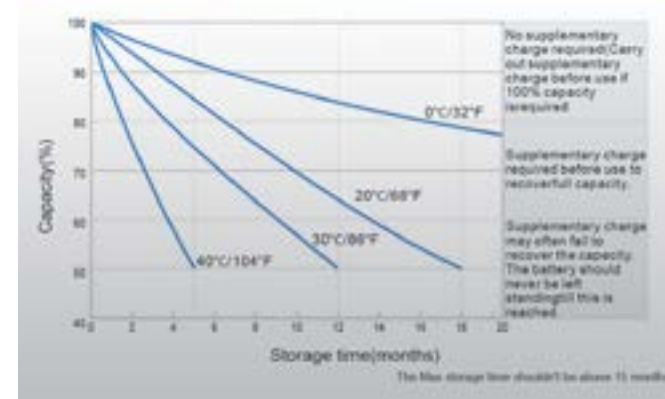
Reinforced case jars for superior vibration resistance & tolerance

## BATTERY SPECIFICATIONS

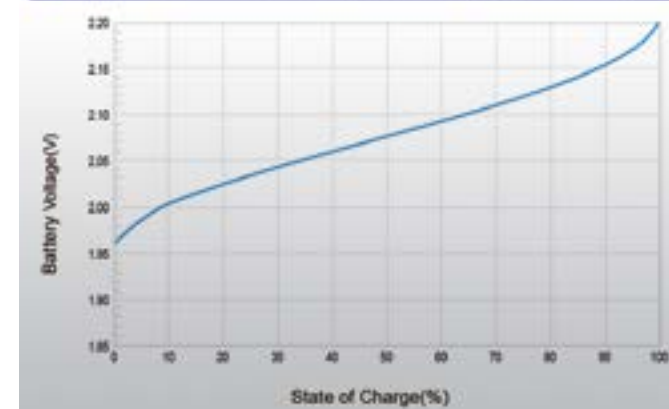
Model	Nominal Voltage (V)	Rated Capacity (AH)				Approx. Dimensions				Approx Weight		Terminal Type				
		20HR	10HR	5HR	3HR	Length	Width	Height	Total Height	kg	lbs					
LDC12-90-G24-DT	12	90	85	77	72	260	102.36	168	66.14	208	81.89	232.5	91.54	23.8	52.47	MT(5/16")
LDC12-105-G27-DT	12	108	104	96	90	306	120.47	168	66.14	208	81.89	232.5	91.54	27.8	61.29	MT(5/16")
LDC12-115-G31-DT	12	118	113	107	98	330	129.92	173	68.11	212	83.46	237	93.31	31.7	69.89	MT(5/16")
LDC12-150-GC12	12	150	143	136	125	327	128.74	180	70.87	274	107.87	274	107.87	42.2	93.03	T11
LDC6-210-GC2	6	210	200	175	165	260	102.36	180	70.87	252	99.21	274	107.87	27.2	59.97	MT(5/16")
LDC6-224-GC2	6	224	210	192	173	260	102.36	180	70.87	247	97.24	253	99.61	30.5	67.24	T11
LDC6-265-GC2	6	268	240	220	200	260	102.36	180	70.87	263	103.54	268	105.51	32.9	72.53	T11
LDC6-245	6	245	232	210	196	243	95.67	187.5	73.82	275	108.27	275	108.27	32.4	71.43	T11
LDC6-350	6	350	332	305	285	295	116.14	180	70.87	346	136.22	368	144.88	48.2	106.26	MT(3/8")
LDC6-400-L16	6	400	375	342	310	295	116.14	180	70.87	406	159.84	428	168.5	54.2	119.49	MT(5/16")

## PERFORMANCE CHARACTERISTICS

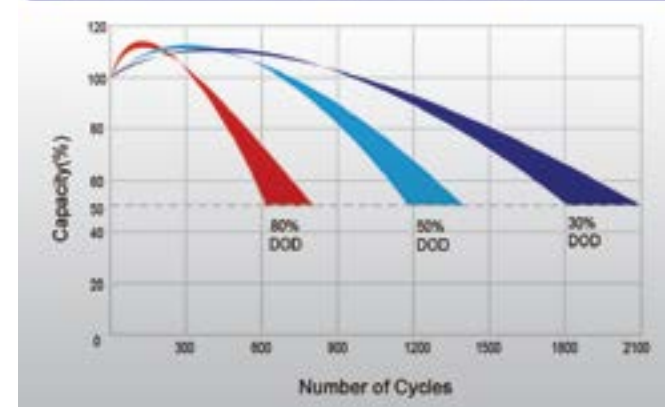
### Self Discharge Characteristics



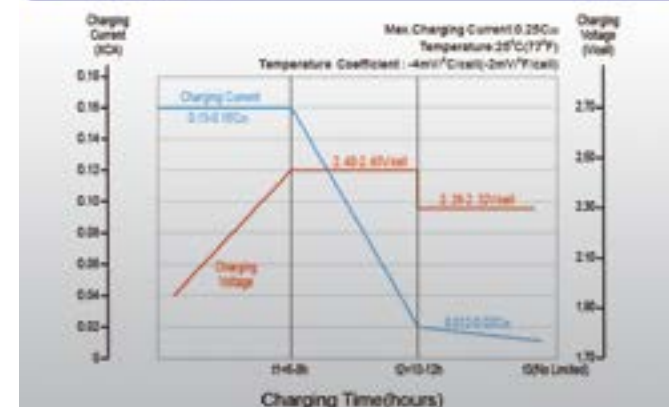
### Relationship of OCV & State of Charge (25°C, 77°F)



### Cycle Life in relation to Depth of Discharge



### Charging Profile







# Lithium-Ion 12V & 24V LFeLi series



**-20°C ~ +60°C**

TEMPERATURE RANGE

**Up to 12 months at 25°C**

SELF-DISCHARGE

**LiFePo4**

TECHNOLOGY

**3200-4000 cycles\***

NUMBER OF CYCLES AT 60% DOD

Lithium-Ion batteries offer extreme cyclic abilities compared to lead-acid batteries. For cyclic demanding applications Leoch has developed Lithium-Ion (LiFePo4) batteries to replace 12V top terminal lead acid batteries offering 5000 cycles at 50% DoD, top terminal design and a wide range of capacities for easy "drop-in" replacement.

## GENERAL FEATURES



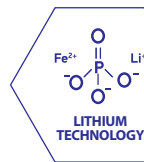
Environmentally friendly without any heavy metals inside



Low self-discharge ( $\leq 2\%$  per month) for increased shelf life (up to 1 year at 25°C)



Extreme cycle life, up to 5000 cycles at 50% DoD to reduce CAPEX & OPEX in cyclic applications



Lithium-Ion Phosphate chemistry has a high thermal runaway threshold being the safest market lithium technology



Light weighted, with high energy density



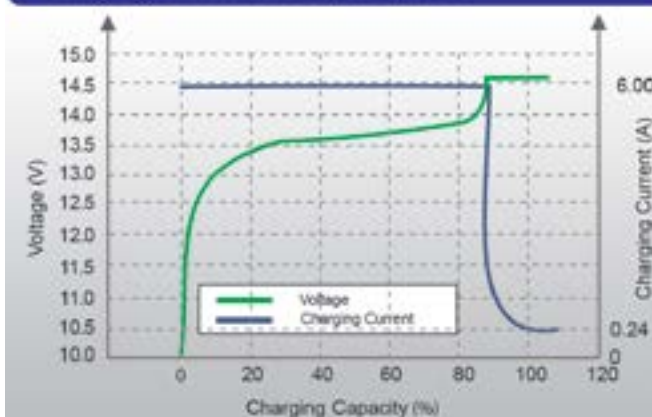
Fast charge capability of up to 1C10 offers unparalleled charging performance

## BATTERY SPECIFICATIONS

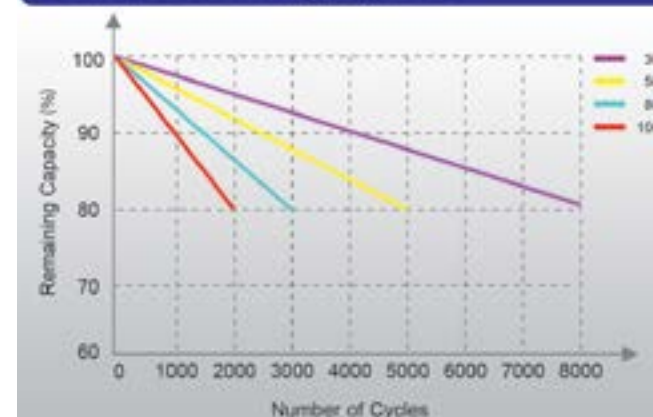
Model	Nominal Voltage (V)	Rated Capacity 10HR @ 2.70V/cell (AH)	Approx. Dimensions						Approx Weight		Terminal Type		
			Length		Width		Height		kg	lbs			
LFeLi-1220S	12.8	20	181.50	7.15	77.00	3.03	167.50	6.59	167.50	6.59	2.60	5.70	T3
LFeLi-1233S	12.8	33	195.00	7.67	130.00	5.12	167.00	6.57	167.00	6.57	4.20	9.30	T3
LFeLi-12100S	12.8	100	330.00	12.99	173.00	6.81	212.00	8.35	220.00	8.66	13.10	28.90	M8 Wiring Terminal
LFeLi-2440M	25.6	40	330.00	13.00	173.00	6.81	214.00	8.42	214.00	8.42	12.60	27.78	M7 Wiring Terminal
LFeLi-2440MMS	25.6	40	245.00	9.65	168.00	6.61	205.00	8.07	205.00	8.07	10.00	22.05	M7 Wiring Terminal
LFeLi-2450M	25.6	50	330.00	13.00	170.00	6.69	214.00	8.42	214.00	8.42	15.00	33.07	M8 Wiring Terminal
LFeLi-2460M	25.6	60	483.00	19.02	170.00	7.05	238.50	9.39	238.50	9.39	17.80	39.24	M8 Wiring Terminal

## PERFORMANCE CHARACTERISTICS

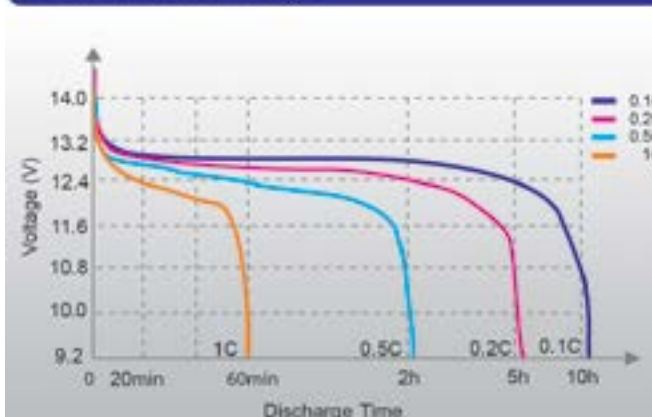
Charging Characteristics (0.5°C, 25°C)



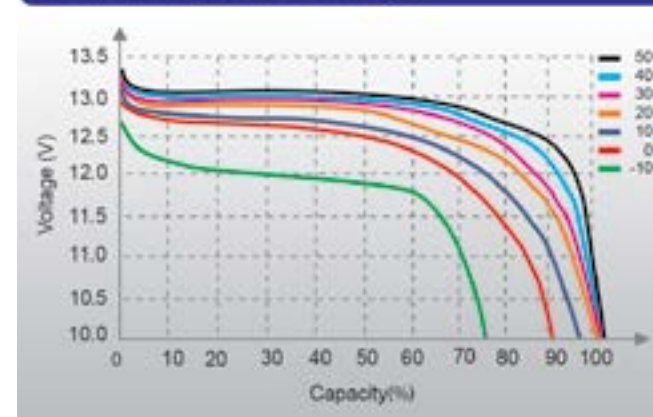
Different DOD Discharge Cycle Life



Different Rate Discharge



Different Temperature Discharge

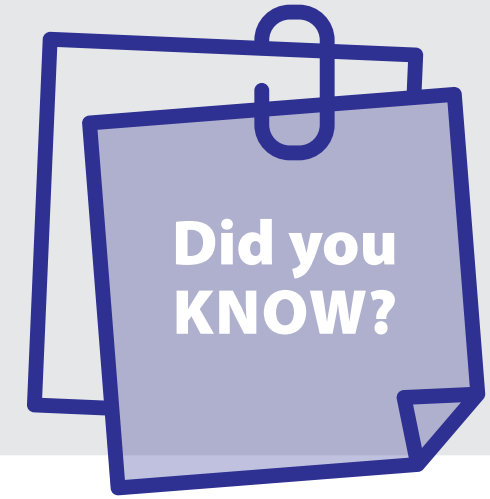
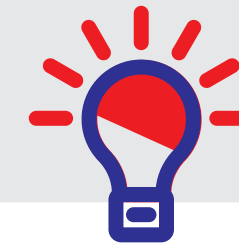




## Why choose us?



**Leoch Battery UK** is a proud subsidiary of one of the world largest battery manufacture, offering you the best of both UK and global resources.



### Central UK warehouse

Our centrally located headquarters and warehouse in Market Harborough, Leicestershire, in the heart of the East Midlands, allow us to distribute our extensive range of batteries with ease and speed across the entirety of the country.



### Quality assured products

Partnering directly with Leoch, one of the largest battery producers in the world, means we know where our products have been manufactured. Continuity of supply is assured: a rarity in the industry.



### UN 38.3 Accreditation

Leoch Lithium 12 and 24V Lithium batteries boast Section 38.3 accreditation from the UN Manual of Tests and Criteria (UN Transportation Testing). This means they are safe to be transported by air, sea, rail and road and throughout the battery's transportation process right through to the end user. The protocol includes identifying/classifying lithium batteries; testing/ qualification requirements; design guidance/conditions and packaging/shipping obligations



### Own branding

Trade customers of Leoch Battery UK can take advantage of the technologies of one of the largest battery manufacturers in the world and develop their own private labelling. An increasingly popular practice, own-branding can lower your costs and increase your profit margins. Both paper and screenprint labelling are possible and we welcome all enquiries.



### CE Marking

Leoch Battery's 12 and 24V Lithium batteries are CE accredited, signifying that they conform with health, safety and environmental protection standards for products sold within the European Economic area. The batteries are assembled according to tests including IEC-61000-6-1 and 61000-6-3 which relate to the Electromagnetic Compatibility (EMC) Directive 2014/30/EU.



### National sales team

We have a dedicated sales team of highly experienced battery professionals out on the road, who are backed up by operations and sales experts in-house. Whether on the end of a phone or making a visit to you in person, our representatives are always on hand to provide expert advice on any technical, sales or after-sales service matters.



### National warranty coverage

For your convenience, Leoch Battery UK's warranty coverage (Link to warranty page) extends to all batteries distributed by the company, whether purchased directly from us or bought through one of our customers. Our batteries are supported by excellent manufacturer warranties of 12 months and tested by trained experts at our UK facility.

## Our Website



### [www.leochbattery.co.uk](http://www.leochbattery.co.uk)

is the site to bookmark for up-to-date Company information and the latest product news. Blogs, downloads and product advice can all be found here, as well as details of the latest exhibitions we're attending.

Please note that all products and specifications are subject to change © Leoch Battery 2020.



**Our team of dedicated Account Managers and office staff** would be delighted to advise on further product information, technical data and suitability, regardless of the application.



Contact us via phone on **01858 433 330** or email on **[sales.uk@leoch.com](mailto:sales.uk@leoch.com)**





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