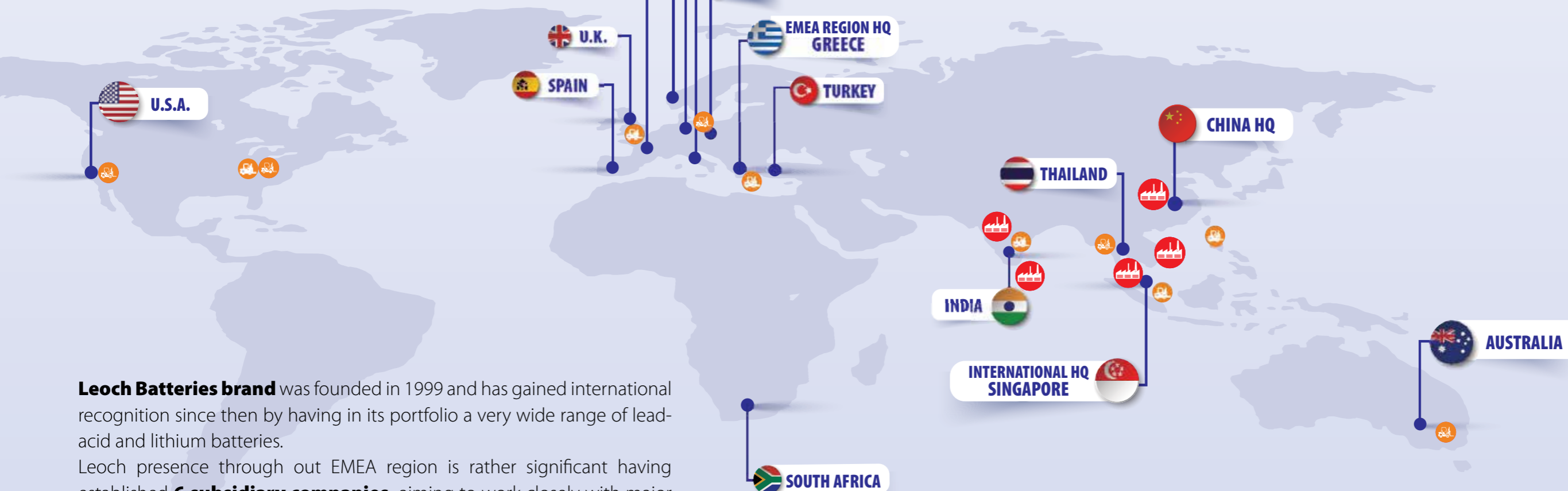


**RELIABLE
POWER**



Series:

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



Leoch Batteries brand was founded in 1999 and has gained international recognition since then by having in its portfolio a very wide range of lead-acid and lithium batteries. Leoch presence through out EMEA region is rather significant having established **6 subsidiary companies**, aiming to work closely with major OE manufacturers, distributors, service providers as well as B2B customers.

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 24 GWH / year.

- 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

Your Global Battery Partner

1.75b	10	24	16	14.000	105	3.000
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 reliable power

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.



Lithium-Ion 12V LFeLi series



-20°C ~ +60°C
TEMPERATURE RANGE

Up to 12 months at 25°C
SELF-DISCHARGE

3 Years*
WARRANTY

3200-4000 cycles*
NUMBER OF CYCLES AT 60% DOD

* depending on the application and the actual model

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

ECO FRIENDLY
Environmentally friendly without any heavy metals inside

LONG LIFE
Low self-discharge (≤2% per month) for increased shelf life (up to 1 year at 25°C)

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

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

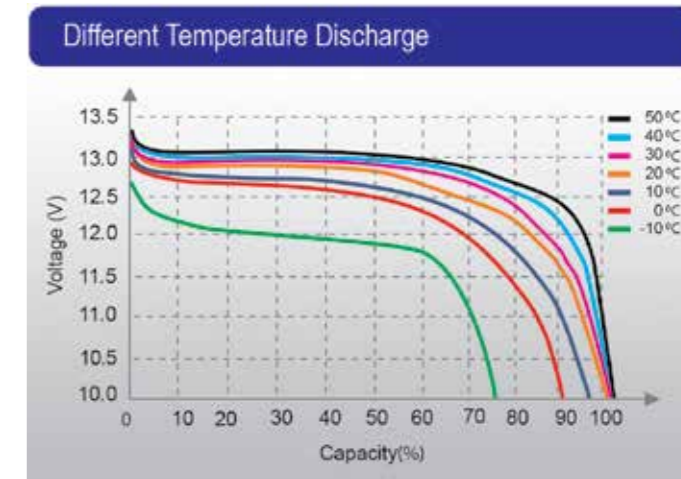
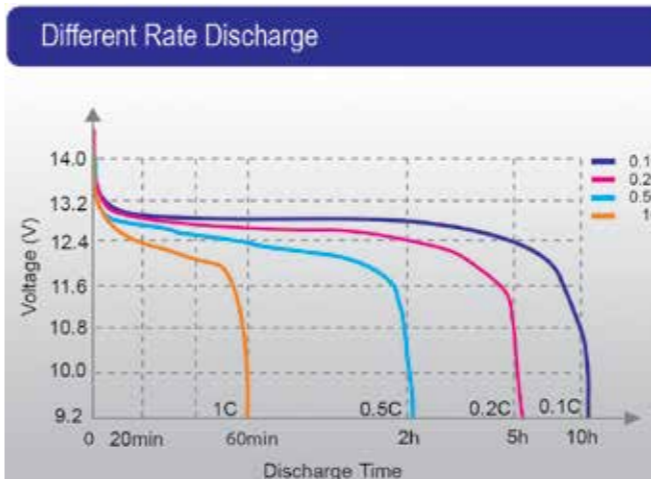
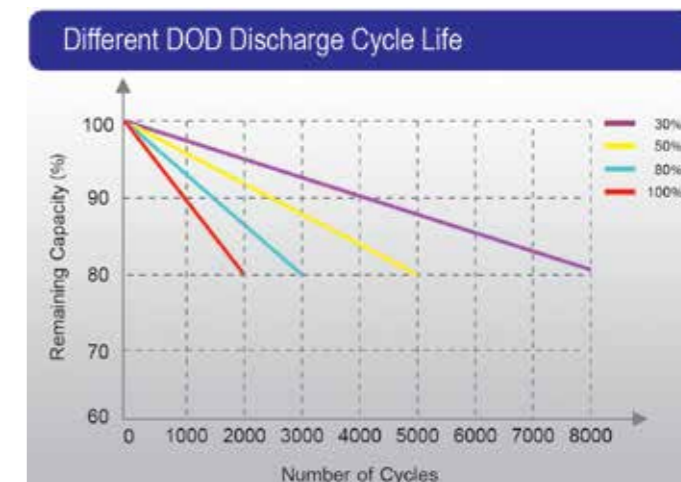
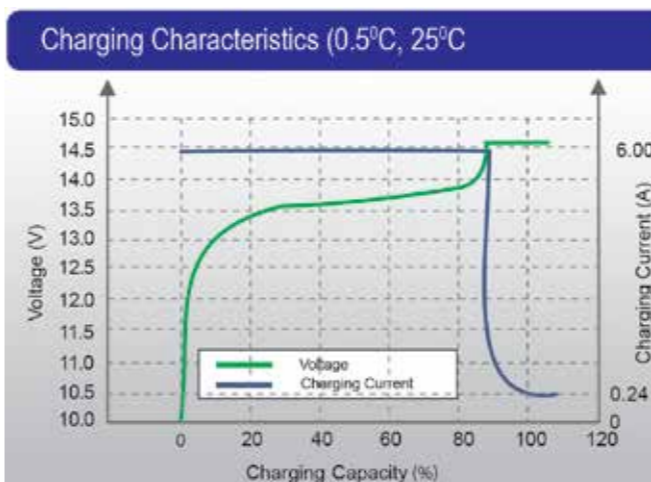
LIGHT WEIGHT
Light weighted, with high energy density

FAST CHARGING
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	
			Length		Width		Height		Total Height		kg	lbs
			mm	in.	mm	in.	mm	in.	mm	in.		
LFeLi-1207M	12.8	7	151.00	5.94	65.00	2.56	93.50	3.68	99.00	3.90	0.90	2.10
LFeLi-1209M	12.8	9	151.00	5.94	65.00	2.56	93.50	3.68	99.00	3.90	1.00	2.20
LFeLi-1212M	12.8	12	151.00	5.94	98.00	3.86	95.00	3.74	101.00	3.98	1.90	4.20
LFeLi-1220M	12.8	20	181.50	7.15	77.00	3.03	167.50	6.59	167.50	6.59	2.60	5.70
LFeLi-1233M	12.8	33	166.00	6.54	175.00	6.89	125.00	4.92	125.00	4.92	4.20	9.30
LFeLi-1240M	12.8	40	197.00	7.76	165.00	6.50	170.00	6.69	170.00	6.69	5.40	11.90
LFeLi-1250M	12.8	50	257.00	10.12	132.00	5.20	200.00	7.87	200.00	7.87	7.00	15.40
LFeLi-1255M	12.8	55	257.00	10.12	132.00	5.20	200.00	8.07	211.00	8.31	7.40	16.30
LFeLi-1260M	12.8	60	260.00	10.24	168.00	6.61	208.00	8.07	211.00	8.31	8.40	18.50
LFeLi-1275M	12.8	75	260.00	10.24	168.00	6.61	208.00	8.19	214.00	8.43	9.30	20.50
LFeLi-12100M	12.8	100	330.00	12.99	173.00	6.81	212.00	8.35	220.00	8.66	13.10	28.90
LFeLi-12150M	12.8	150	483.00	19.02	170.00	6.69	238.50	9.39	238.50	9.39	21.30	47.00
LFeLi-12200M	12.8	200	522.00	20.55	240.00	9.45	218.00	8.58	224.00	8.82	24.20	53.40

PERFORMANCE CHARACTERISTICS





Flooded Flat Plated DT series



+5°C – +50°C

TEMPERATURE RANGE

Up to 6 months at 25°C

SELF-DISCHARGE

1 year

WARRANTY

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 & 8 volt. Optimized for motive and industrial deep cycle applications with power capabilities that range from 170Ah to 260Ah. Engineered using enhanced SiO₂-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

High vibration resistance PP casing

SEPARATOR

Enhanced SiO₂-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

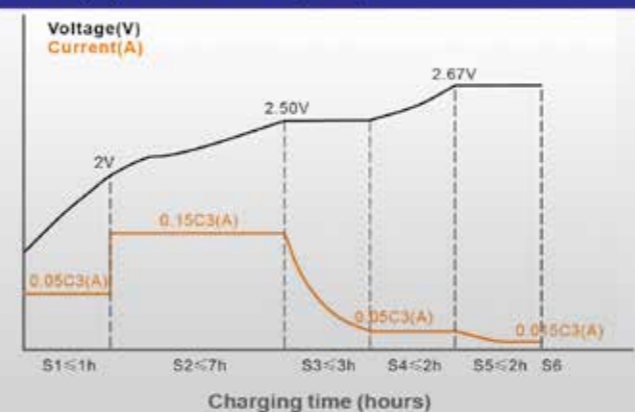
Refilling plugs with special construction for reduced water loss over usage time

BATTERY SPECIFICATIONS

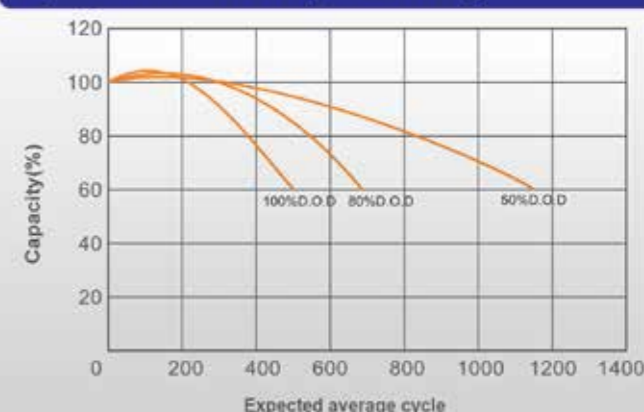
Model	Nominal Voltage (V)	Rated Capacity (AH)			Reserve Capacity (min)			Approx. Dimensions						Approx. Weight		Terminal Type		
		20 HR	5 HR	3 HR	@25 Amps	@56 Amps	@75 Amps	Length		Width		Height		Total Height				
								mm	in.	mm	in.	mm	in.	mm	in.		kg	lbs
DT606	6	210	175	140	380	-	105	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	24.20	53.40	DT-M8 (A)
DT106	6	225	185	155	445	-	115	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	27.50	60.60	DT-M8 (A)
DT126	6	240	195	160	485	-	130	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	27.60	60.80	DT-M8 (A)
DT146	6	260	215	170	530	-	145	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	28.20	62.20	DT-M8 (A)
DT866	8	150	125	100	225	90	-	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	23.70	52.20	DT-M8 (A)
DT876	8	170	145	120	295	117	-	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	26.60	58.60	DT-M8 (A)
DT896	8	190	155	125	340	132	-	260.00	10.24	180.00	7.09	248.00	9.76	279.50	11.00	30.30	66.80	DT-M8 (A)
DT1275	12	150	120	100	280	102	-	328.00	12.91	180.00	7.09	248.00	9.76	279.50	11.00	33.50	73.90	DT-M8 (A)

PERFORMANCE CHARACTERISTICS

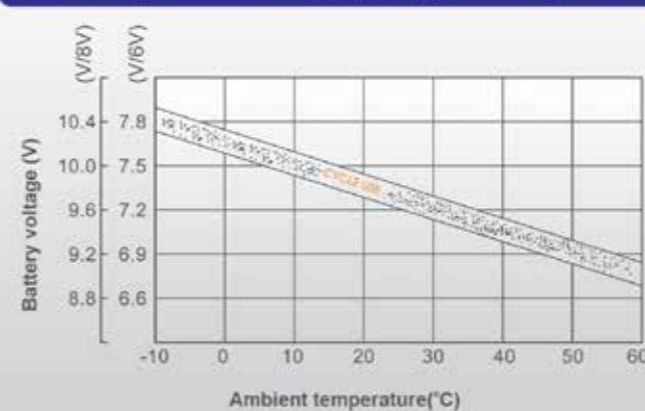
Charging characteristic (25°C)



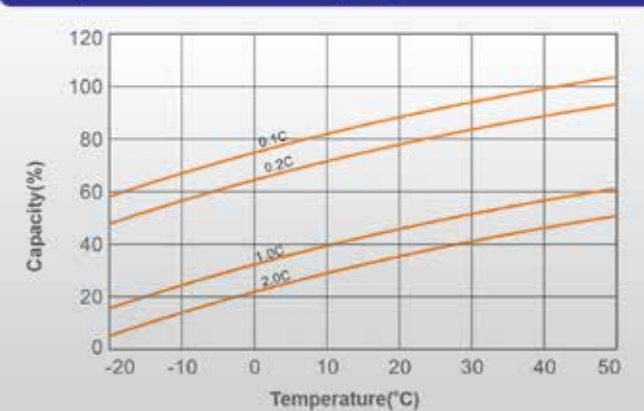
Cycle life in relation to depth of discharge



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

1~2 Years*

WARRANTY

1000 cycles

NUMBER OF CYCLES AT 80% DOD

*model dependent

The best AGM battery on the market! The Leoch LDC range of 6, 8 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).

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	
						mm	in.	mm	in.	mm	in.	mm	in.			
LDC12-15	12	15	14	13,5	13	151,50	59,65	99,50	39,17	97,00	38,19	100,00	39,37	4,00	8,82	T15-1
LDC12-25	12	25	24	22,6	21,7	181,50	71,46	197,00	77,00	170,00	66,93	170,00	66,93	6,40	14,11	T15
LDC12-26	12	26	25	24	23	181,00	71,26	197,00	76,50	170,00	67,32	171,00	67,32	6,90	15,21	T15
LDC12-39	12	39	37	35	33	195,00	76,77	230,00	51,18	164,00	64,57	167,00	65,75	11,30	24,91	T6
LDC12-43	12	43	37	34	32	267,50	105,31	277,50	30,51	171,00	67,32	171,00	67,32	10,10	22,27	T15
LDC12-53	12	53	46	44	40	197,00	77,56	166,00	65,35	170,00	66,93	170,00	66,93	14,20	31,31	T6
LDC12-55	12	55	50	48	45	223,00	87,80	123,00	48,43	175,00	68,90	175,00	68,90	13,40	29,54	T12-A
LDC12-68	12	68	60	57	53	229,00	90,16	138,00	54,33	210,00	82,68	216,50	85,24	17,50	38,58	T6
LDC12-76	12	76	70	65	60	260,00	102,36	168,00	66,14	173,00	68,11	176,00	69,29	20,00	44,09	T6
LDC12-90C	12	90	85	77	72	260,00	102,36	168,00	66,14	208,00	81,89	214,00	84,25	23,30	51,37	T6
LDC12-90-G24-T	12	90	85	77	72	260,00	102,36	168,00	66,14	208,00	81,89	214,00	84,25	23,30	51,37	T6-A
LDC12-90-G24-DT	12	90	85	77	72	260,00	102,36	168,00	66,14	208,00	81,89	214,00	84,25	23,30	51,37	MT(5/16")
LDC12-100	12	100	92	89	80	260,00	102,36	168,00	66,14	211,00	83,07	214,00	84,25	25,80	56,88	T6
LDC12-105-G27-T	12	108	104	96	90	306,00	120,47	168,00	66,14	208,00	81,89	214,00	84,25	27,30	60,19	T6-A
LDC12-105-G27-DT	12	108	104	96	90	306,00	120,47	168,00	66,14	208,00	81,89	214,00	84,25	27,30	60,19	MT(5/16")
LDC12-115-G31-DT	12	118	113	107	98	330,00	129,92	173,00	68,11	212,00	83,46	237,00	93,31	31,70	69,89	MT(5/16")
LDC12-115-G31-T	12	118	113	107	98	330,00	129,92	173,00	68,11	212,00	83,46	237,00	93,31	31,70	69,89	T11
LDC12-120	12	120	114	106	100	330,00	129,92	173,00	68,11	213,00	83,86	220,00	86,61	32,80	72,31	T11
LDC12-135	12	135	126	115	105	327,00	128,74	180,00	70,87	274,00	107,87	274,00	107,87	37,70	83,11	T11
LDC12-140	12	144	138	126	120	408,00	160,63	176,00	69,29	224,50	88,39	224,50	88,39	39,20	86,42	T11
LDC12-145	12	148	141	122	118	340,00	133,86	172,00	67,72	280,00	110,24	286,00	112,60	42,50	93,70	T11
LDC12-150-GC12	12	150	143	136	125	327,00	128,74	180,00	70,87	274,00	107,87	274,00	107,87	42,20	93,03	T11
LDC12-180	12	180	174	162	150	483,00	190,16	170,00	66,93	238,50	93,90	238,50	93,90	50,10	110,45	T11
LDC12-220	12	220	210	190	170	387,00	152,36	180,00	70,87	346,00	136,22	368,00	144,88	59,70	131,62	MT(3/8")
LDC12-245	12	245	233	210	185	387,00	152,36	180,00	70,87	346,00	136,22	368,00	144,88	64,30	141,76	MT(3/8")
LDC6-210-GC2	6	210	200	175	165	260,00	102,36	180,00	70,87	252,00	99,21	274,00	107,87	30,40	67,02	MT(5/16")
LDC6-210B	6	210	200	175	165	260,00	102,36	180,00	70,87	252,00	99,21	274,00	107,87	30,40	67,02	GF6250
LDC6-210C	6	210	200	175	165	260,00	102,36	180,00	70,87	252,00	99,21	274,00	107,87	30,40	67,02	M1-1
LDC6-400C	6	400	375	342	310	295,00	116,14	180,00	70,87	406,00	159,84	428,00	168,50	54,20	119,49	GF6250-1
LDC6-400D	6	400	375	342	310	295,00	116,14	180,00	70,87	406,00	159,84	428,00	168,50	54,20	119,49	M1-1
LDC6-224-GC2	6	224	210	192	173	260,00	102,36	180,00	70,87	247,00	97,24	253,00	99,61	30,50	67,24	T11
LDC6-265-GC2	6	268	240	220	200	260,00	102,36	180,00	70,87	263,00	103,54	268,00	105,51	32,90	72,53	T11
LDC6-245	6	245	232	210	196	243,00	95,67	187,50	73,82	275,00	108,27	275,00	108,27	32,40	71,43	T11
LDC6-270	6	270	255	235	219	260,00	102,36	180,00	70,87	263,00	103,54	268,00	105,51	34,70	76,50	T11
LDC6-275	6	275	260	240	225	295,00	116,14	180,00	70,87	274,00	107,87	296,00	116,54	36,50	80,47	MT(5/16")
LDC6-315	6	315	275	250	235	295,00	116,14	180,00	70,87	346,00	136,22	368,00	144,88	44,00	97,00	M1-1
LDC6-350	6	350	332	305	285	295,00	116,14	180,00	70,87	346,00	136,22	368,00	144,88	48,20	106,26	MT(3/8")
LDC6-370	6	370	325	290	265	295,00	116,14	180,00	70,87	406,00	159,84	428,00	168,50	52,40	115,52	M1-1
LDC6-400-L16	6	400	375	342	310	295,00	116,14	180,00	70,87	406,00	159,84	428,00	168,50	54,20	119,49	MT(5/16")
LDC8-165-GC8	8	165	155	140	125	260,00	102,36	180,00	70,87	252,00	99,21	274,00	107,87	29,30	64,60	MT(5/16")
LDC8-195	8	195	178	163	150	262,00	103,15	180,00	70,87	278,50	109,65	278,50	109,65	34,50	76,06	T11
LDC8-180-GC8	8	182	170	153	135	260,00	102,36	180,00	70,87	252,00	99,21	274,00	107,87	30,80	67,90	MT(5/16")
LDC8-210-GC8H	8	210	190	165	165	260,00	102,36	182,00	71,65	295,00	116,14	298,00	117,32	40,50	89,29	T11

GENERAL FEATURES



LONG SERVICE LIFE

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



SAFETY

Unique anti-explosion 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

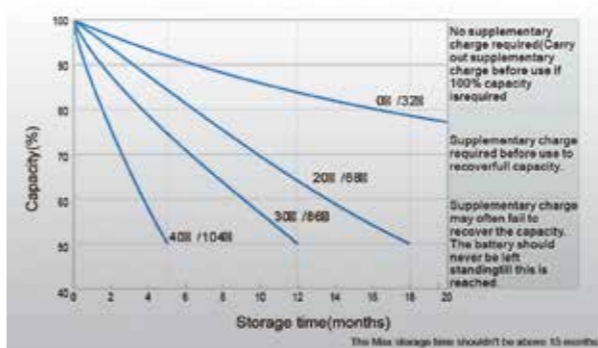


REINFORCED CASE

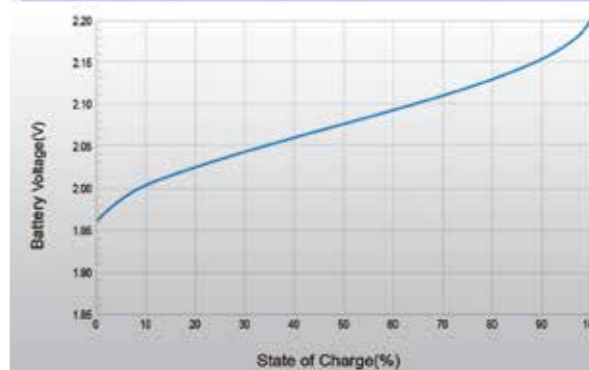
Reinforced case jars for superior vibration resistance & tolerance

PERFORMANCE CHARACTERISTICS

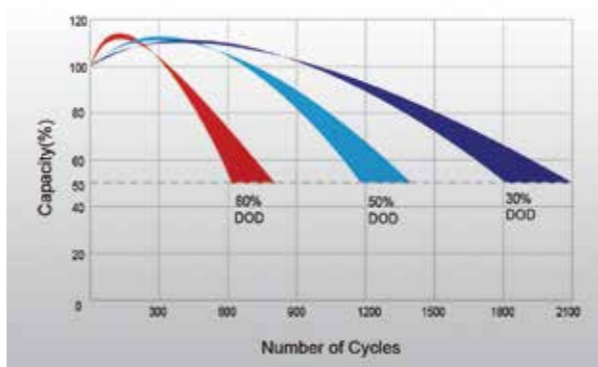
Self Discharge Characteristics



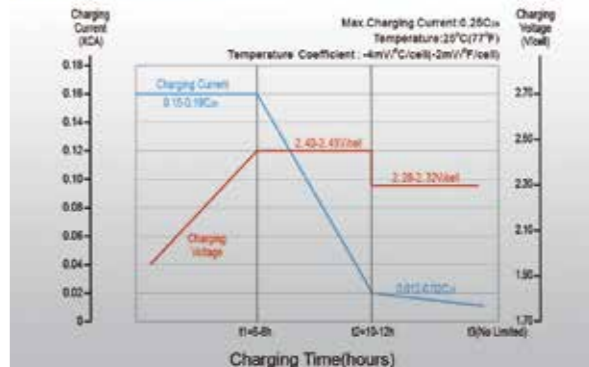
Relationship of OCV & State of Charge (25°C, 77°F)



Cycle Life in relation to Depth of Discharge



Charging Profile



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