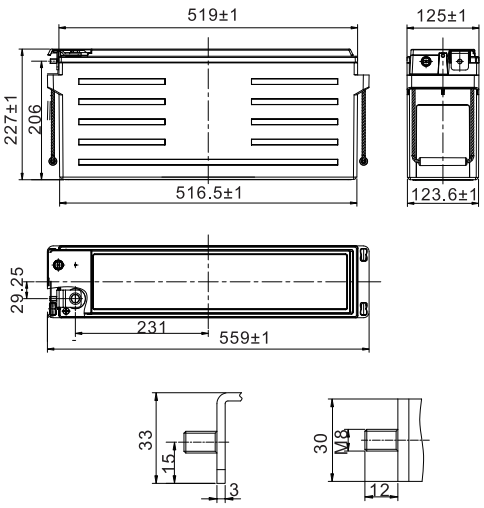
PLH+C-Pure Lead Carbon
PLH+C 110FT (12V110Ah)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Capacity	C_{10},1.80V/cell	110Ah
	C_8,1.75V/cell	110Ah
Dimension	Length	559±1mm (22.01 inches)
	Width	125±1mm (4.92 inches)
	Container Height	227±1mm (8.94 inches)
	Total Height	227±1mm (8.94 inches)
Approx. Weight		36.5 Kg (80.5 lbs)
Terminal		M8
Container Material		PC-ABS flame retardant jar and cover to UL94 V-0
Rated Capacity (25°C)	110.0 Ah	(10hr, 11.0A,1.80V/cell)
	110.0 Ah	(8hr, 13.8A,1.75V/cell)
	103.5 Ah	(5hr, 20.7A,1.75V/cell)
	95.1 Ah	(3hr, 31.7A,1.75V/cell)
	81.7 Ah	(1hr, 81.7A,1.67V/cell)
Max. Discharge Current		1320A
Internal Resistance (25°C)		Approx. 4.0mΩ(Fully charged)
Operating Temp.Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-20 ~ 40°C (-4 ~ 104°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Max.Charging Current(25°C)		33.0A
Charge voltage(25°C)	Float	13.62V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	14.1~14.4V
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	PLH+C series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter. Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.	

Layout



Unit: mm

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	210.0	172.9	147.9	115.8	88.4	72.0	42.2	30.2	24.3	20.0	13.3	10.8	5.82
1.80V/cell	233.2	189.4	160.4	124.0	93.4	75.6	43.5	31.0	24.8	20.4	13.5	11.0	5.95
1.75V/cell	254.8	204.3	171.4	130.9	97.7	78.4	44.7	31.7	25.2	20.7	13.8	11.2	6.07
1.70V/cell	274.2	217.0	180.7	136.7	101.1	80.6	45.6	32.0	25.5	21.0	13.9	11.3	6.16
1.67V/cell	284.5	223.4	185.2	139.3	102.7	81.7	45.9	32.2	25.7	21.1	14.0	11.3	6.19
1.60V/cell	303.3	234.2	192.2	143.2	104.7	83.2	46.5	32.7	26.1	21.3	14.2	11.6	6.25

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	397.7	326.5	280.8	217.6	170.5	139.6	82.6	59.4	47.9	39.7	26.3	21.5	11.6
1.80V/cell	434.9	352.7	304.9	236.1	181.2	147.2	85.9	60.7	48.8	40.2	26.7	21.8	11.8
1.75V/cell	469.0	376.1	322.7	247.8	188.3	152.1	87.9	61.7	49.6	40.8	27.0	22.1	12.0
1.70V/cell	498.5	395.7	337.3	255.8	193.7	156.0	89.3	62.6	50.0	41.3	27.2	22.4	12.1
1.67V/cell	513.6	405.2	344.2	260.6	196.3	157.6	90.0	63.0	50.3	41.5	27.3	22.5	12.2
1.60V/cell	540.0	420.4	354.6	266.6	199.5	159.7	90.9	63.5	50.8	41.8	27.5	23.1	12.3

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Applications

- Backup Power
- Grid-connected Energy Storage System
- Off-grid Energy Storage System
- Demand charge reduction
- Time-of-Use bill management

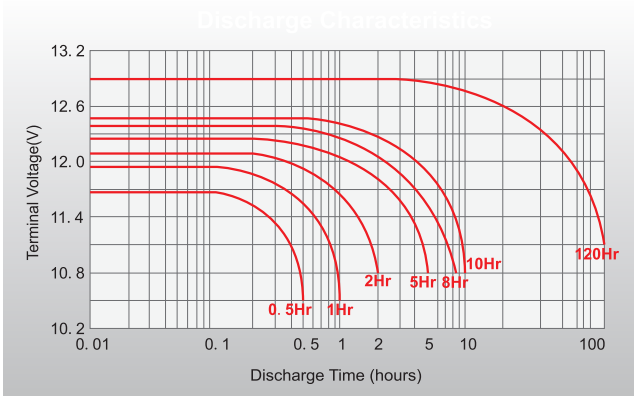
General Features

- High energy density
- Low internal resistance and self-discharge rate
- Excellent fast charging acceptance: 1.5hour to 90% SOC
- Excellent high rate discharge performance in low temperature
- Super high PSoC cycle life

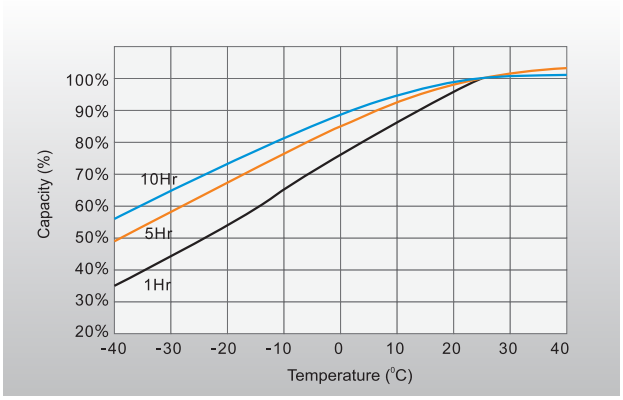
Standards

- Compliance with IEC 60896 standards
- Manufactured in Leoch®IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

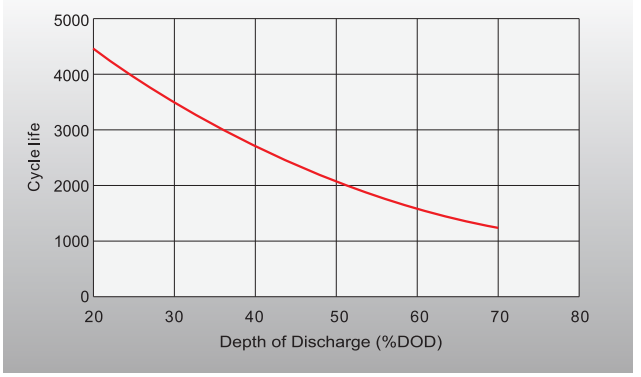
Discharge Characteristics



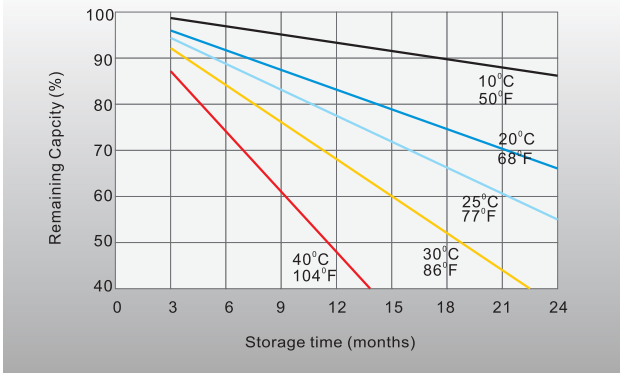
Temperature in Relation to Capacity



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



Sales Offices Worldwide

China Sales Office
5th Floor, Xinbaohui Bldg., Nanhai Blvd., Nanshan, Shenzhen, China. 518052
Tel: +86-755-86036060 (100 lines)
Fax: +86-755-26067269
E-mail:export@leoch.com

HongKong Sales Office
Workshop C, 33/F, TML Tower, No. 3 Hoi Shing Road, Tsuen Wan, New Territories, Hong Kong
Tel: +852 35786666
Fax: +44 1452 690125
E-mail: sales.hk@leoch.com

Singapore Sales Office
No. 1 Tech Park Crescent, Singapore 638131
Tel: +65 68636078
Fax: +65 6863 6079
Email: sales.sg@Leoch.com

Australia Sales Office
2 /29 Tarlington Place, Smithfield. NSW 2164 Australia
Tel: 02 9756 0950
E-mail: sales.au@leoch.com

North America Sales Office
19751 Descartes
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5966
E-mail: sales@leoch.us

UK Sales Office
9B Wheatstone Court. Waterwells, Business Park, Gloucester, GL2-2AQ, UK United Kingdom
Tel: +44(0) 1452 729428 / 1452 729696
Fax:+44 1452 690125
E-mail: Sales.Europe@leoch.com

EMEA Sales Office
1 Deligiorgi St., 121 31 Athens, Greece
Tel: +30 210 5760318 (2 lines)
E-mail: support_EMEA@leoch.com

India Sales Office
Shed no.A-53(b), 2nd Stage of Peenya Industrial Area, Bangalore North Taluk, Bangalore-560058, India
Tel: +91-80-23440018/23440019
Fax: +91-80-23440017
E-mail: indiasales@leoch.com

Http://www.leoch.com
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