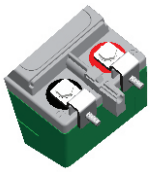
PLH+C-Pure Lead Carbon
PLH+C 210FT (12V210Ah)

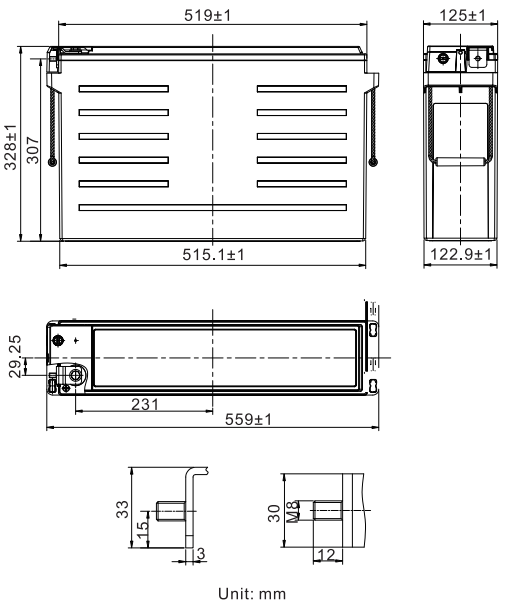
LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Capacity	C_{10},1.80V/cell	210Ah
	C_8,1.75V/cell	210Ah
Dimension	Length	559±1mm (22.01 inches)
	Width	125±1mm (4.92 inches)
	Container Height	328±1mm (12.91 inches)
	Total Height	328±1mm (12.91 inches)
Approx. Weight		60.5 Kg (133.4 lbs)
Terminal		M8
Container Material		PC-ABS flame retardant jar and cover to UL94 V-0
Rated Capacity (25°C)	210.0 Ah	(10hr, 21.0A,1.80V/cell)
	210.0 Ah	(8hr, 26.3A,1.75V/cell)
	196.5 Ah	(5hr, 39.3A,1.75V/cell)
	173.7 Ah	(3hr, 57.9A,1.75V/cell)
	144.3 Ah	(1hr, 144.3A,1.67V/cell)
Max. Discharge Current		2520A
Internal Resistance (25°C)		Approx. 2.6mΩ(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)		63.0A
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	352.8	294.0	264.6	205.8	157.8	128.8	76.6	55.0	45.4	37.5	25.0	20.4	10.7
1.80V/cell	390.6	319.2	283.5	218.2	166.5	135.4	79.5	56.9	47.0	38.7	25.8	21.0	10.8
1.75V/cell	415.8	336.0	296.1	227.9	172.2	139.7	81.2	57.9	47.9	39.3	26.3	21.3	10.8
1.70V/cell	441.0	352.8	308.7	236.1	177.1	142.9	82.4	58.7	48.3	39.8	26.5	21.6	10.9
1.67V/cell	466.2	369.6	321.3	240.2	179.4	144.3	83.1	59.0	48.6	40.0	26.7	21.8	11.0
1.60V/cell	491.4	378.0	327.6	245.8	182.2	146.4	83.6	59.3	48.9	40.2	26.8	21.8	11.1

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	627.4	501.9	453.7	357.1	278.8	238.4	131.7	96.2	81.6	68.6	49.7	41.0	21.5
1.80V/cell	693.8	545.2	488.2	372.6	286.3	239.5	134.2	96.4	82.6	69.0	50.1	41.3	21.7
1.75V/cell	719.3	570.9	509.8	385.3	293.6	240.6	136.6	96.5	83.6	69.1	50.5	41.6	21.8
1.70V/cell	748.7	595.7	528.2	396.3	300.5	245.5	138.9	96.6	84.5	69.2	50.8	41.9	21.9
1.67V/cell	790.7	623.0	537.3	401.4	303.5	247.6	141.8	97.2	84.9	69.5	50.9	42.3	22.0
1.60V/cell	799.7	627.2	541.0	407.5	306.3	249.3	142.1	98.0	85.1	69.8	51.0	42.7	22.1

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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

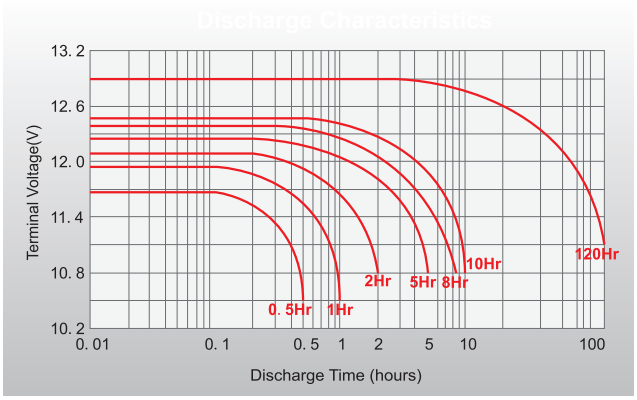
General Features

- 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

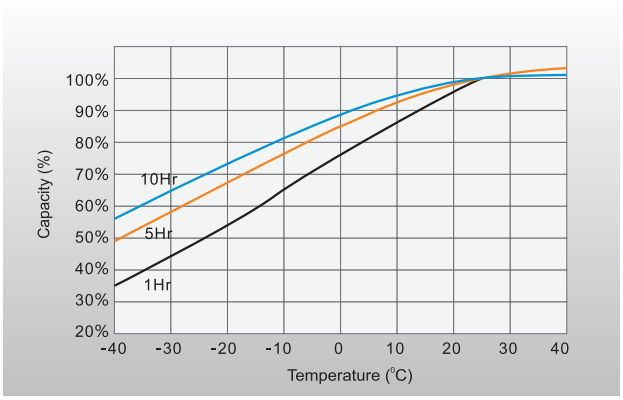
Standards

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

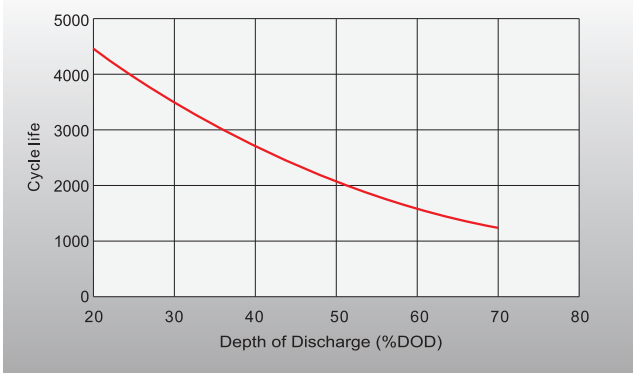
Discharge Characteristics



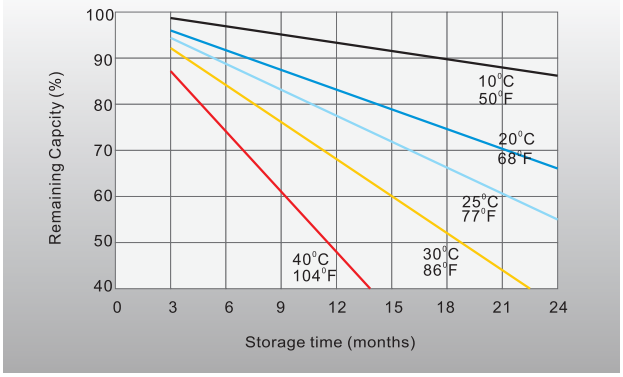
Temperature in Relation to Capacity



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
Http://www.leoch.us

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