



PLH+C-Pure Lead Carbon

PLH+C 190FT (12V190Ah)

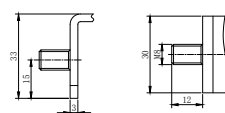
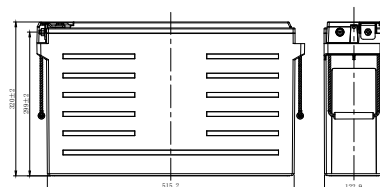


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	190Ah
	C ₈ , 1.75V/cell	190Ah
Dimension	Length	559±2mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	320±2mm (12.6 inches)
	Total Height	320±2mm (12.6 inches)
Approx. Weight	57.6 Kg (127.0 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	190.0 Ah	(10hr, 19.0A, 1.80V/cell)
	190.4 Ah	(8hr, 23.8A, 1.75V/cell)
	167.0 Ah	(5hr, 33.4A, 1.75V/cell)
	132.9 Ah	(3hr, 44.3A, 1.75V/cell)
	101.8 Ah	(1hr, 101.8A, 1.67V/cell)
Max. Discharge Current	2280A	
Internal Resistance (25°C)	Approx. 3.0mΩ(Fully charged)	
Operating Temp.Range	-40 ~ 65°C (-40 ~ 149°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	Normal Charge 0.3C	
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.Storage temp. advised: 0 - 40°C	



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	271.5	212.8	176.7	139.6	107.3	87.5	53.2	41.8	36.6	32.7	22.7	18.9	10.1
1.80V/cell	300.1	228.0	191.6	149.8	114.3	93.0	55.1	43.1	37.1	33.1	23.4	19.0	10.3
1.75V/cell	324.5	243.2	205.0	158.4	119.8	97.0	57.0	44.3	37.5	33.4	23.8	19.7	10.5
1.70V/cell	343.6	258.4	216.7	165.7	124.4	100.3	58.9	45.6	38.5	33.8	24.0	19.9	10.6
1.67V/cell	352.8	273.6	222.4	169.3	126.5	101.8	59.9	46.9	39.4	34.6	24.2	20.1	10.7
1.60V/cell	359.1	288.8	232.2	175.1	129.8	104.3	60.8	48.1	40.4	35.0	24.3	20.1	10.7

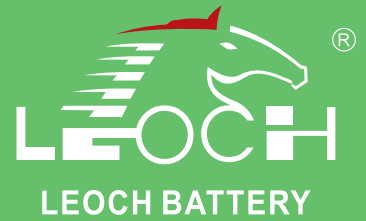
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	499.5	408.7	341.7	272.3	210.9	173.0	103.7	85.8	73.8	65.1	45.4	37.7	20.1
1.80V/cell	538.1	433.5	370.5	292.7	225.5	184.2	109.0	87.2	74.7	65.8	46.3	38.1	20.5
1.75V/cell	575.5	457.5	391.6	306.5	234.1	190.6	112.2	88.5	75.6	65.8	46.9	38.9	20.9
1.70V/cell	611.8	480.7	409.0	317.6	241.2	195.7	114.5	89.8	75.7	65.9	47.2	39.2	20.9
1.67V/cell	628.7	505.8	416.0	322.9	244.3	196.8	115.5	90.3	75.9	65.9	47.3	39.4	21.0
1.60V/cell	638.4	524.9	424.4	327.8	246.3	199.2	116.5	91.0	76.3	66.0	47.4	40.0	21.0



PLH+C-Pure Lead Carbon

PLH+C 190FT (12V190Ah)



Applications

- Backup Power
- Telecom base station with unstable mains
- Light hybrid & renewable energy applications

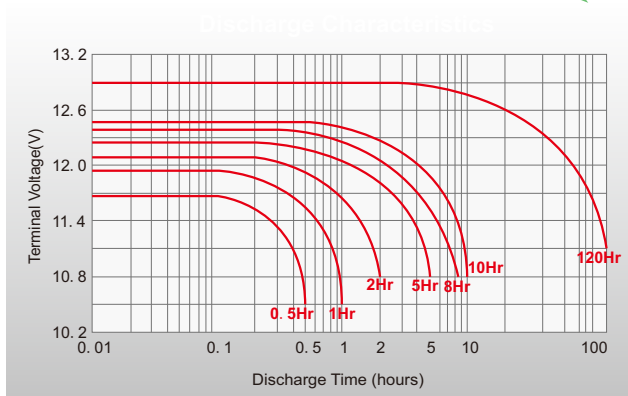
General Features

- 20 years design life(25°C)
- High energy density
- Low internal resistance and self-discharge rate
- Excellent high rate discharge performance in low temperature

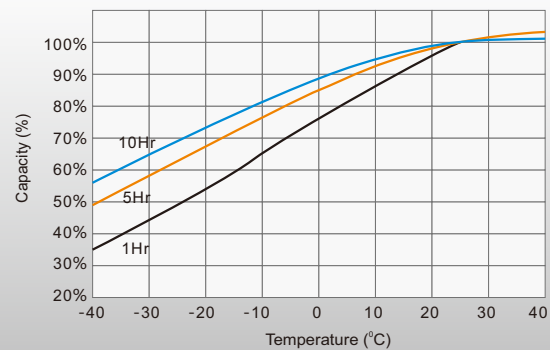
Standards

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

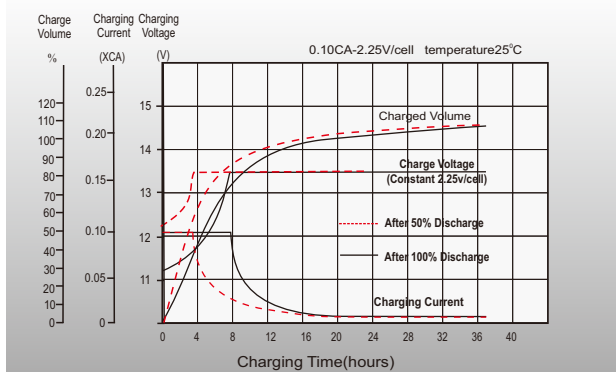
Discharge Characteristics



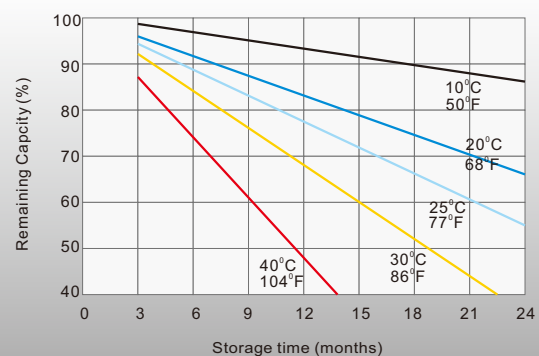
Temperature in Relation to Capacity



Float Charging Characteristics



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.com)
[Http://www.leoch.us](http://www.leoch.us)

© 2022 LEOCH. All rights reserved.
Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.
Subject to revisions without prior notice.

Publication No.: LB-PLH+C 190FT-PD-EU-V3.4-202212