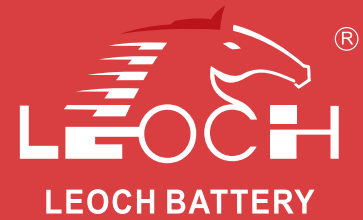




# LHR Series-High Rate

## LHR12600FT(12V600W)

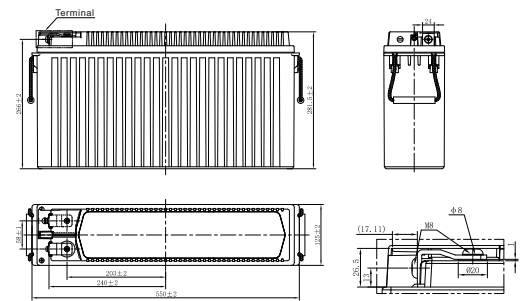


### Specifications

Rated Voltage	12V		
Nominal Rate( $W_{15}, 1.67V/cell$ )	600W/cell		
Nominal Capacity( $C_{10}, 1.80V/cell$ )	150Ah		
Dimension	Length	550±2mm (21.7 inches)	
	Width	125±2mm (4.92 inches)	
	Container Height	281.5±2mm (11.1 inches)	
	Total Height	281.5±2mm (11.1 inches)	
Approx Weight	51.0kg (112.4 lbs)		
Terminal	M8		
Container Material	ABS: UL 94 HB or V-0 optional		
Rated Capacity(25°C)	150.0 Ah	C10(15.0A, 1.80V/cell)	
	157.6 Ah	C8(17.4A, 1.80V/cell)	
	149.5 Ah	C5(26.4A, 1.75V/cell)	
	132.6 Ah	C3(40.0A, 1.75V/cell)	
	97.2 Ah	C1(97.2A, 1.60V/cell)	
Max. Discharge Current	1500A (5s)		
Internal Resistance(25°C)	Approx 3.5mΩ		
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)	
	Charge	-20 ~ 40°C (-4 ~ 104°F)	
	Storage	-15 ~ 50°C (5 ~ 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Max.Charging Current(25°C)	37.5A		
Charge voltage(25°C)	Float	Charge voltage	Temp. Coefficient
	Equalization	2.25 ~ 2.30V/cell	-3mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	2.30~2.40V/cell	-4mV/cell/°C
	25°C (77°F)		
	0°C (32°F)		
Self Discharge	≤3%/month @ 25°C		



### Layout



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	351.0	281.4	242.1	190.4	139.1	106.5	82.2	61.6	49.6	36.9	29.2	24.7	17.1	14.6
1.80V/cell	400.3	320.3	275.1	215.8	157.3	111.0	84.0	65.5	52.5	38.6	30.3	25.7	17.4	15.0
1.75V/cell	413.6	330.5	283.3	221.7	160.9	116.7	87.0	68.0	54.5	40.0	31.3	26.4	17.6	15.1
1.70V/cell	449.5	358.2	306.0	239.0	173.5	121.2	91.3	69.7	55.8	40.8	32.0	27.0	17.9	15.2
1.67V/cell	492.3	391.0	333.1	259.8	187.9	124.9	94.9	71.5	57.1	41.7	32.5	27.4	18.1	15.4
1.60V/cell	509.7	404.4	343.5	266.4	192.5	129.0	97.2	72.8	58.3	42.7	33.2	27.9	18.2	15.5

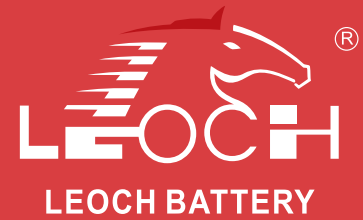
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	655.5	529.5	458.4	362.1	265.9	204.8	159.0	119.5	96.5	72.1	57.3	48.6	33.9	29.0
1.80V/cell	735.3	593.9	514.2	406.2	298.2	212.0	161.6	126.2	101.6	75.2	59.2	50.4	34.5	29.8
1.75V/cell	746.5	602.9	522.0	412.4	302.8	221.6	166.6	130.6	105.1	77.5	60.9	51.6	34.7	29.9
1.70V/cell	797.9	644.5	558.0	440.8	323.6	228.5	174.0	133.2	107.1	78.9	62.1	52.6	35.2	30.1
1.67V/cell	858.0	693.0	600.0	474.0	348.0	234.1	179.7	136.0	109.2	80.2	62.7	53.1	35.5	30.5
1.60V/cell	870.0	702.7	608.4	480.6	352.9	239.6	182.9	137.5	110.7	81.8	63.9	54.0	35.6	30.6



# LHR Series-High Rate

## LHR12600FT(12V600W)



### Applications

- UPS
- Hospitals & Testing Laboratories
- Emergency Power Supply
- Banks & Financial Markets
- Industrial Process Control Facilities
- Data & Network Operation Centers

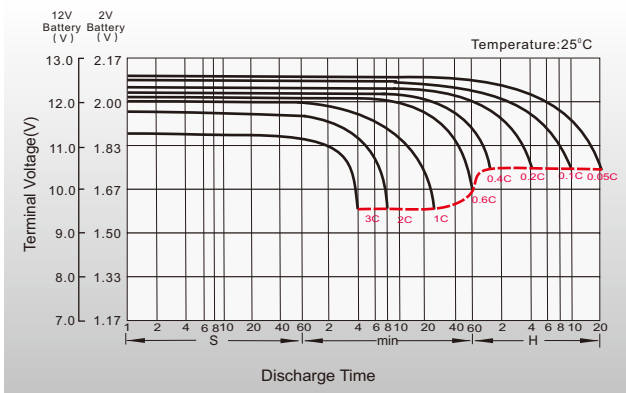
### General Features

- High quality AGM separator: extend cycle life and prevent micro short circuit
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- Unique vent valve design: reduce water losing and prevent air/spark going inside

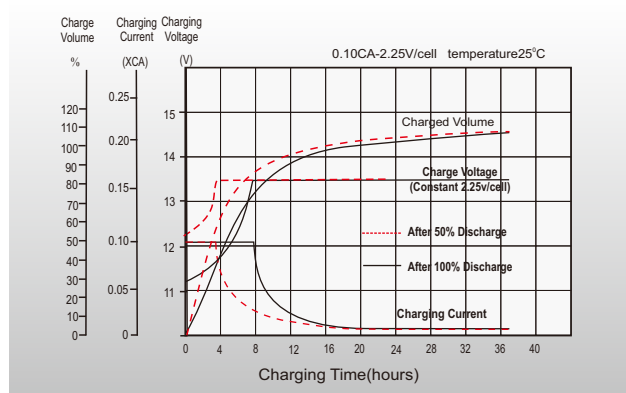
### Standards

- Compliance with IEC 60896 and YD/T 3427 standards
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

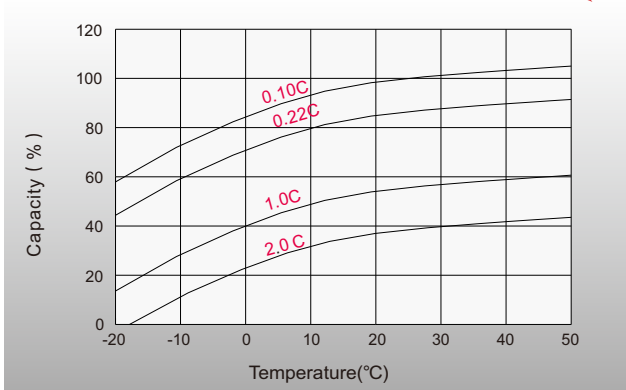
### Discharge Characteristics



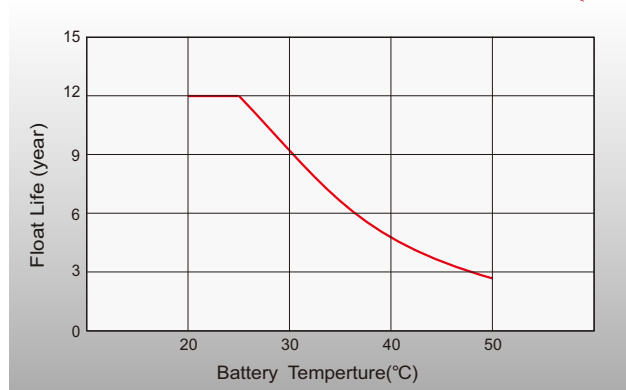
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Temperature Effects on Long Term Float Life



## 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  
Http://www.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  
Http://www.leoch.eu

#### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens,  
Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com  
Http://www.leoch.eu

#### 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)

© 1999-2022 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-LHR12600FT-PD-EN-V1.0-202201