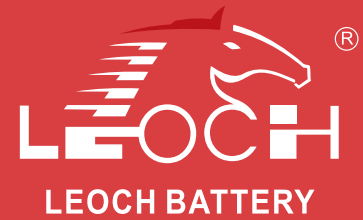




# LHR Series-High Rate

## LHR12550FT(12V550W)

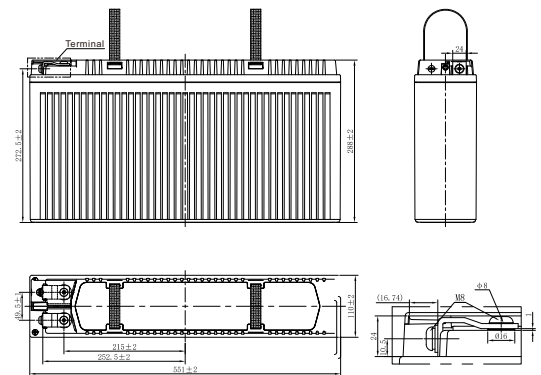


### Specifications

Rated Voltage	12V		
Nominal Rate( $W_{15}, 1.67V/cell$ )	550W/cell		
Nominal Capacity( $C_{10}, 1.80V/cell$ )	140Ah		
Dimension	Length	551±2mm (21.7 inches)	
	Width	110±2mm (4.33 inches)	
	Container Height	288±2mm (11.3 inches)	
	Total Height	288±2mm (11.3 inches)	
Approx Weight	47.5kg (104.7 lbs)		
Terminal	M8		
Container Material	ABS: UL 94 HB or V-0 optional		
Rated Capacity(25°C)	140.0 Ah	C10(14.0A, 1.80V/cell)	
	130.4 Ah	C8(16.3A, 1.80V/cell)	
	123.0 Ah	C5(24.6A, 1.75V/cell)	
	111.9 Ah	C3(37.3A, 1.75V/cell)	
	90.7 Ah	C1(90.7A, 1.60V/cell)	
Max. Discharge Current	1400A (5s)		
Internal Resistance(25°C)	Approx 3.7mΩ		
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)	35.0A		
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	311.4	253.2	217.9	171.3	125.2	98.0	76.7	57.5	46.3	34.5	27.2	23.0	15.9	13.6
1.80V/cell	346.2	281.0	241.3	189.3	138.0	102.2	78.4	61.1	49.0	36.1	28.3	24.0	16.3	14.0
1.75V/cell	373.8	302.9	259.7	203.2	147.5	107.5	81.2	63.5	50.9	37.3	29.2	24.6	16.4	14.1
1.70V/cell	401.9	324.9	277.4	216.7	157.3	111.7	85.2	65.1	52.1	38.1	29.9	25.2	16.7	14.2
1.67V/cell	444.9	358.5	305.4	238.1	172.3	115.1	88.5	66.8	53.3	38.9	30.3	25.5	16.9	14.4
1.60V/cell	460.7	370.7	314.9	244.2	176.5	119.0	90.7	68.0	54.4	39.9	31.0	26.0	17.0	14.5

### 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	581.6	476.4	412.5	325.9	239.3	188.4	148.4	111.5	90.0	67.3	53.4	45.4	31.6	27.1
1.80V/cell	635.9	520.9	451.0	356.3	261.6	195.2	150.8	117.8	94.8	70.1	55.2	47.0	32.2	27.8
1.75V/cell	674.7	552.7	478.5	378.0	277.5	204.1	155.5	121.9	98.1	72.4	56.9	48.2	32.4	27.9
1.70V/cell	713.5	584.4	506.0	399.7	293.5	210.6	162.4	124.3	100.0	73.6	58.0	49.1	32.9	28.1
1.67V/cell	775.5	635.3	550.0	434.5	319.0	215.9	167.7	126.9	102.0	74.9	58.6	49.6	33.2	28.4
1.60V/cell	786.4	644.1	557.7	440.6	323.5	221.0	170.7	128.4	103.3	76.3	59.6	50.4	33.3	28.6



# LHR Series-High Rate

## LHR12550FT(12V550W)



### Applications

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

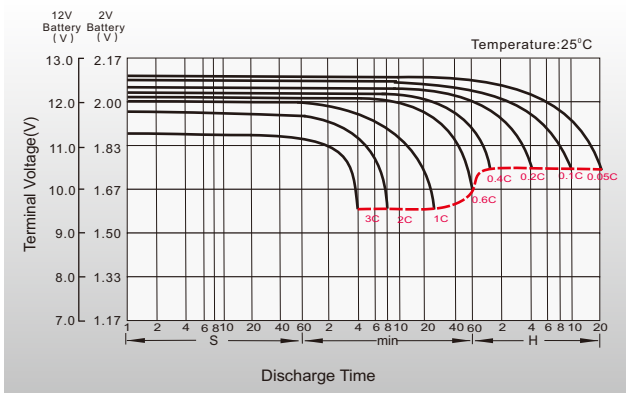
### General Features

- 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

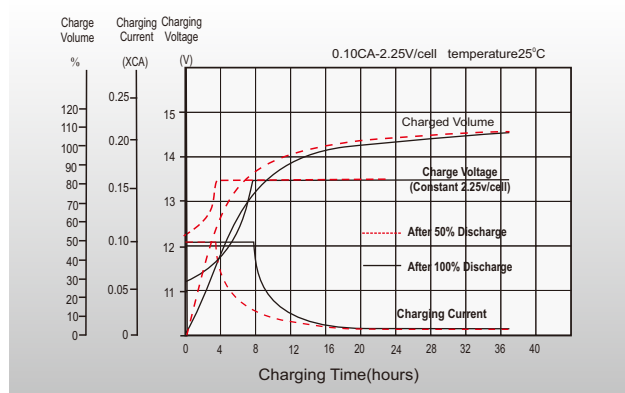
### Standards

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

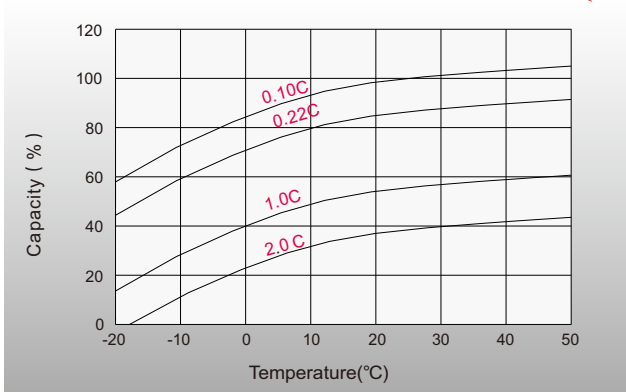
### Discharge Characteristics



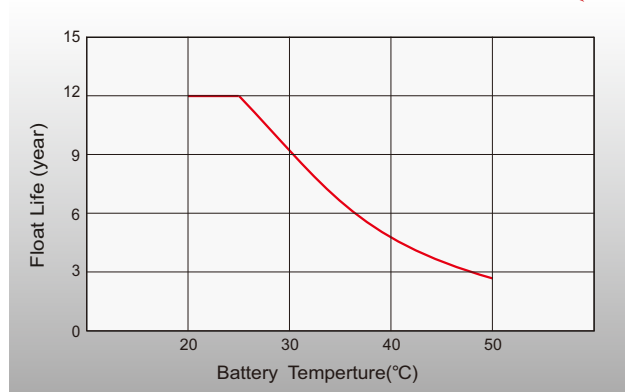
### Float Charging Characteristics



### 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



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Publication No.: LB-LHR12550FT-PD-EN-V1.0-202201