

LHR Series-High Rate

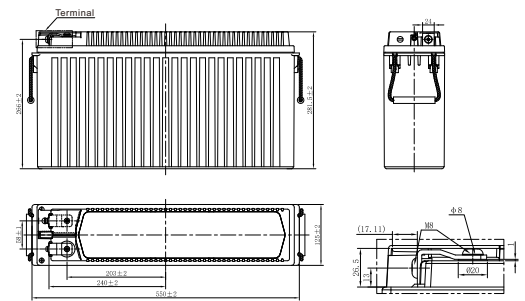
LHR12600FT(12V600W)



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



IEEE/UL Battery
Sizing by
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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

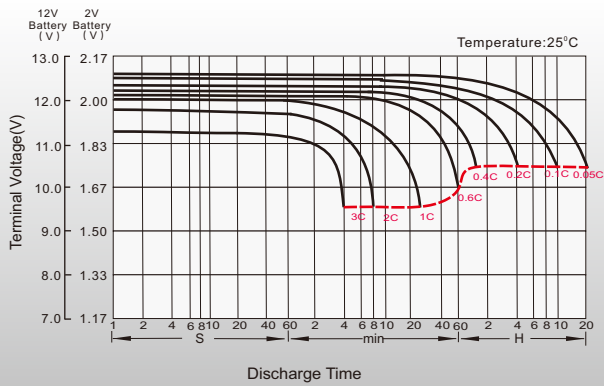
General Features

- 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

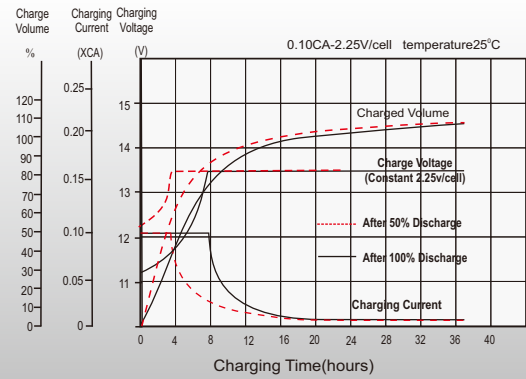
Standards

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

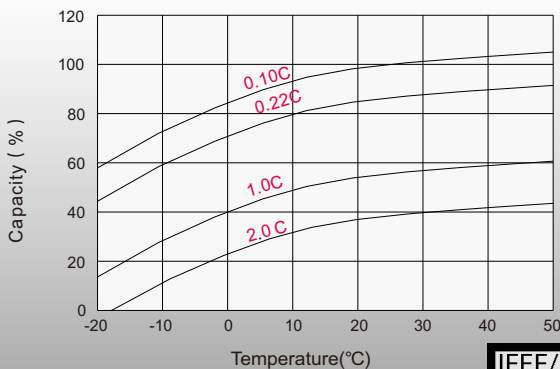
Discharge Characteristics



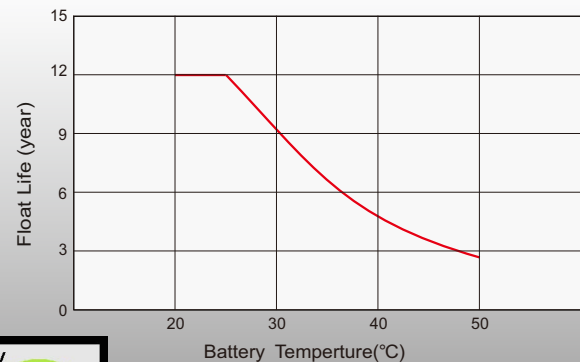
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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