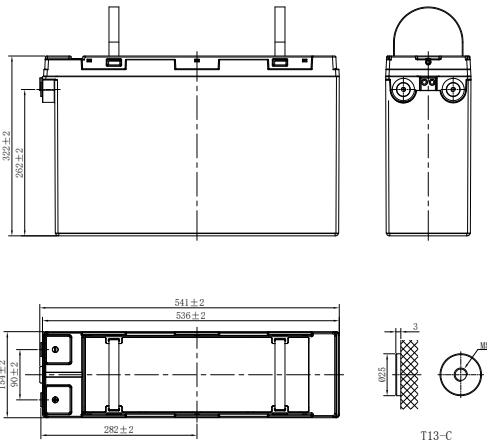


LHR SERIES-HIGH RATE

LHR121000FT (12V1000W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	$W_{15}, 1.67V/cell$	1000W/cell
Nominal Capacity (25°C)	$C_{10}, 1.80V/cell$	240Ah
Dimension	Length	541mm (21.3inches)
	Width	154mm (6.06inches)
	Container Height	322mm (12.7inches)
	Total Height	322mm (12.7inches)
Approx Weight	84.5kg (186.3lbs)	
Terminal	T13-C(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4800A	
Internal Resistance (25°C)	Approx 2.2 mΩ (Fully charged)	
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)	0.25C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.30-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-4mV/cell/°C
	40°C (104°F)	106%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	Self Discharge	≤ 3% per month at 25°C (77°F)

DISCHARGE TABLE

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	598.2	477.6	414.1	325.6	225.6	152.9	117.5	87.0	79.3	59.1	46.7	39.5	27.3	23.3
1.80V/cell	680.3	542.1	469.2	368.1	254.4	172.2	132.2	97.8	84.0	61.0	48.4	41.1	27.9	24.0
1.75V/cell	716.8	570.3	492.8	385.6	265.5	179.3	137.5	101.7	87.2	62.3	50.1	42.3	28.1	24.1
1.70V/cell	790.0	626.8	539.5	421.4	290.1	195.7	149.8	110.7	89.3	63.7	51.3	43.2	28.6	24.3
1.67V/cell	817.6	646.7	555.2	432.9	297.0	200.0	153.1	113.1	91.4	65.1	51.9	43.8	28.9	24.6
1.60V/cell	846.5	668.8	572.5	444.0	304.3	204.7	156.3	115.5	93.2	66.7	53.1	44.6	29.1	24.8

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	1117.2	898.5	784.0	619.4	431.2	294.0	227.4	168.6	154.3	115.4	91.6	77.8	54.2	46.4
1.80V/cell	1249.7	1005.0	877.0	692.8	482.4	328.9	254.3	188.6	162.6	118.7	94.7	80.6	55.2	47.7
1.75V/cell	1293.9	1040.6	908.0	717.3	499.4	340.5	263.3	195.2	168.1	120.9	97.5	82.6	55.5	47.8
1.70V/cell	1402.2	1127.7	984.0	777.4	541.2	369.0	285.4	211.6	171.4	123.1	99.4	84.2	56.4	48.1
1.67V/cell	1425.0	1146.0	1000.0	790.0	550.0	375.0	290.0	215.0	174.8	125.2	100.4	85.0	56.9	48.8
1.60V/cell	1445.0	1162.0	1014.0	801.1	557.7	380.3	294.1	218.0	177.1	127.8	102.2	86.3	57.0	48.9

LHR SERIES-HIGH RATE

LHR121000FT (12V1000W)



APPLICATIONS

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

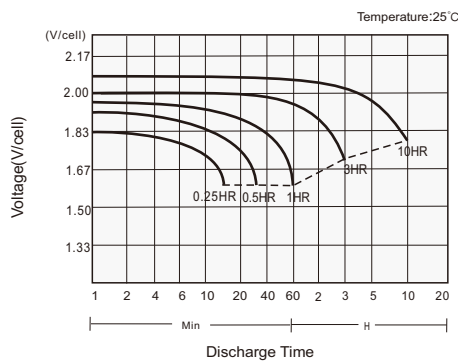
GENERAL FEATURES

- 12+ years design life (25°C)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing, and extending battery life
- Optimal energy density - saves floor space
- Front access design for easy installation and maintenance

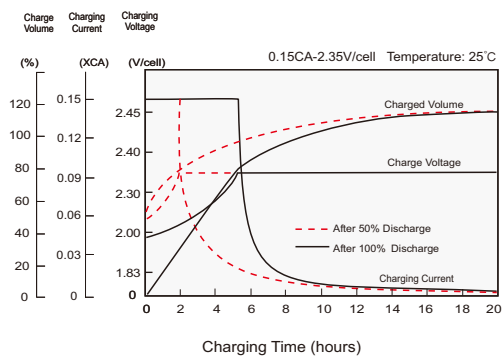
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE,UL Approved
- Manufactured in Leoch@IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

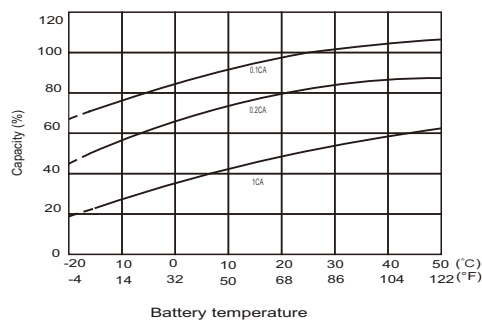
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

