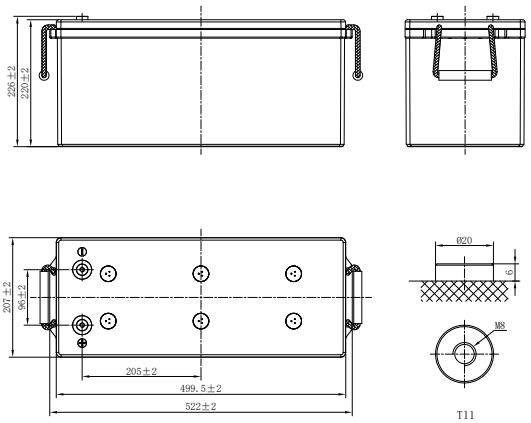
LHR SERIES-HIGH RATE

LHR12650W (12V650W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	650W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	170Ah
Dimension	Length	522mm(20.6inches)
	Width	207mm(8.15inches)
	Container Height	220mm(8.66inches)
	Total Height	226mm(8.90inches)
Approx Weight		56.0kg(123.5lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3400A
Internal Resistance (25℃)		Approx 3.2 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~55℃ (-4~131°F)
	Charge	-20~40℃ (-4~104°F)
	Storage	-15~50℃ (5~122°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.25C
Charge voltage (25℃)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.30-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-4mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	106%
	25℃ (77°F)	100%
	0℃ (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	388.8	310.4	269.1	211.7	146.7	115.5	93.6	68.7	56.2	41.8	33.1	28.0	19.4	16.5
1.80V/cell	442.2	352.4	305.0	239.3	165.4	122.6	96.7	70.8	59.5	43.2	34.3	29.1	19.8	17.0
1.75V/cell	472.1	375.6	324.5	253.9	174.8	130.0	100.7	73.7	61.8	44.2	35.5	29.9	19.9	17.1
1.70V/cell	501.0	397.5	342.1	267.2	184.0	136.4	105.1	76.8	63.2	45.1	36.3	30.6	20.2	17.2
1.67V/cell	531.4	420.3	360.9	281.4	193.1	140.1	106.2	78.8	64.8	46.1	36.8	31.0	20.5	17.5
1.60V/cell	550.2	434.7	372.1	288.6	197.8	143.6	108.2	81.4	66.0	47.3	37.6	31.6	20.6	17.6

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	726.2	584.0	509.6	402.6	280.3	222.0	181.0	133.2	109.3	81.8	64.9	55.1	38.4	32.9
1.80V/cell	812.3	653.3	570.1	450.3	313.5	234.2	186.0	136.5	115.2	84.1	67.1	57.1	39.1	33.8
1.75V/cell	852.2	685.3	598.0	472.4	328.9	246.8	192.8	141.5	119.1	85.7	69.1	58.5	39.3	33.9
1.70V/cell	889.2	715.1	624.0	493.0	343.2	257.2	200.2	146.7	121.4	87.2	70.4	59.7	39.9	34.1
1.67V/cell	926.3	744.9	650.0	513.5	357.5	262.8	201.2	149.8	123.8	88.7	71.1	60.2	40.3	34.5
1.60V/cell	939.2	755.3	659.1	520.7	362.5	266.7	203.5	153.7	125.4	90.5	72.4	61.2	40.4	34.7

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LEOCH BATTERY

APPLICATIONS

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

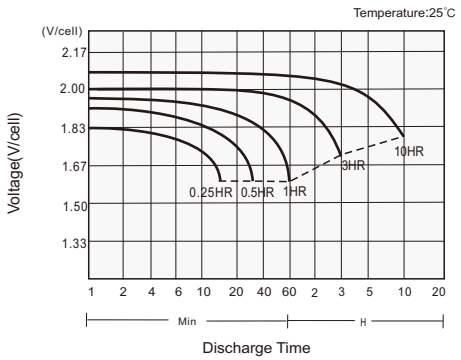
GENERAL FEATURES

- 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
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space

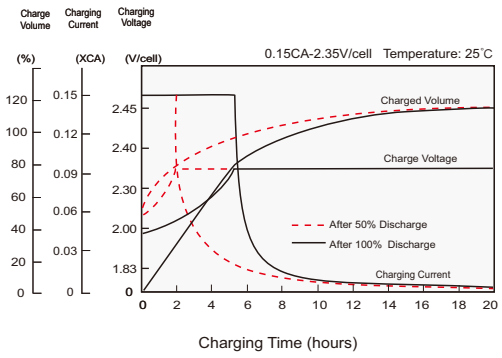
STANDARDS

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

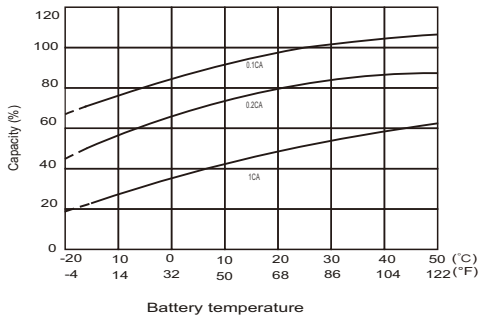
Discharge Characteristics



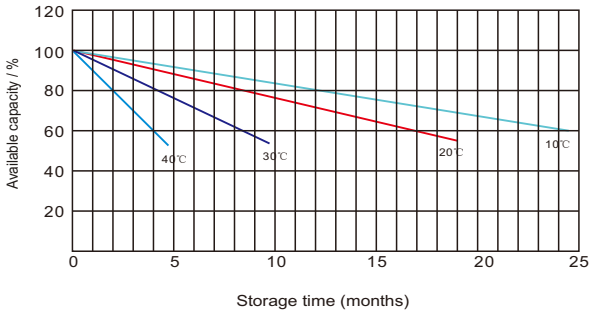
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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