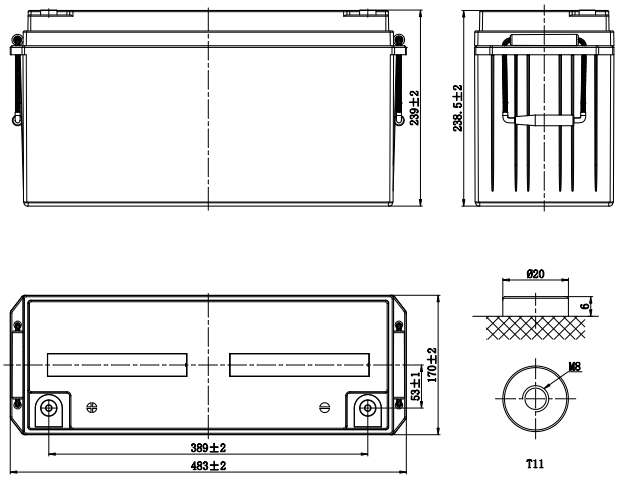
LHR SERIES-HIGH RATE

LHR12600W(A) (12V600W)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Rate (25℃)	W_{15},1.67V/cell	600W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	145Ah
Dimension	Length	483mm(19.0inches)
	Width	170mm(6.69inches)
	Container Height	238.5mm(9.39inches)
	Total Height	239mm(9.41inches)
Approx Weight		47.5kg(104.7lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2900A
Internal Resistance (25℃)		Approx 3.5 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	358.9	286.5	248.4	195.4	135.4	98.5	79.8	58.6	47.9	35.7	28.2	23.9	16.5	14.1
1.80V/cell	408.2	325.3	281.5	220.9	152.7	104.6	82.5	60.4	50.7	36.9	29.3	24.8	16.8	14.5
1.75V/cell	435.8	346.7	299.6	234.4	161.4	110.9	85.9	62.9	52.7	37.7	30.2	25.5	17.0	14.6
1.70V/cell	462.4	366.9	315.8	246.7	169.8	116.3	89.6	65.5	53.9	38.5	31.0	26.1	17.3	14.7
1.67V/cell	490.5	388.0	333.1	259.8	178.2	119.5	90.6	67.2	55.2	39.3	31.4	26.5	17.5	14.9
1.60V/cell	507.9	401.3	343.5	266.4	182.6	122.5	92.3	69.4	56.3	40.3	32.1	27.0	17.6	15.0

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	670.3	539.1	470.4	371.6	258.7	189.3	154.4	113.6	93.2	69.7	55.3	47.0	32.7	28.0
1.80V/cell	749.8	603.0	526.2	415.7	289.4	199.7	158.7	116.4	98.2	71.7	57.2	48.7	33.3	28.8
1.75V/cell	786.6	632.6	552.0	436.1	303.6	210.5	164.5	120.7	101.6	73.1	58.9	49.9	33.6	28.9
1.70V/cell	820.8	660.1	576.0	455.0	316.8	219.4	170.7	125.1	103.6	74.4	60.1	50.9	34.1	29.1
1.67V/cell	855.0	687.6	600.0	474.0	330.0	224.1	171.6	127.7	105.6	75.7	60.7	51.4	34.4	29.5
1.60V/cell	867.0	697.2	608.4	480.6	334.6	227.5	173.6	131.1	107.0	77.2	61.8	52.2	34.5	29.6

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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

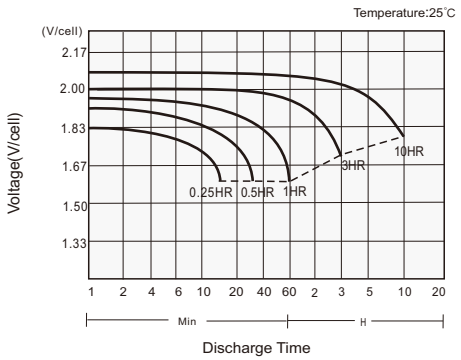
GENERAL FEATURES

- 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

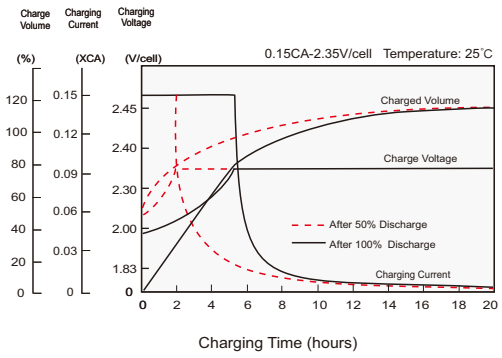
STANDARDS

- 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

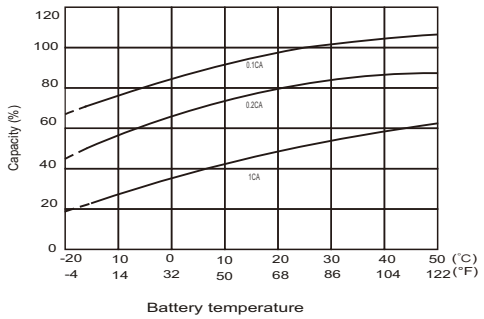
Discharge Characteristics



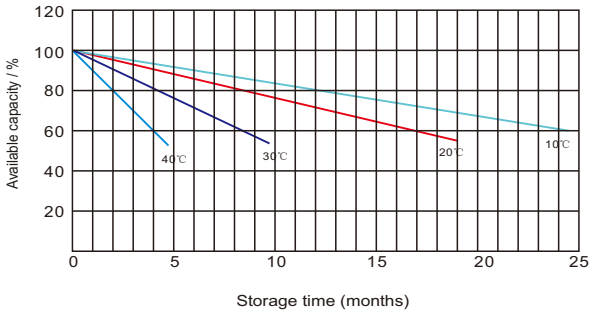
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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