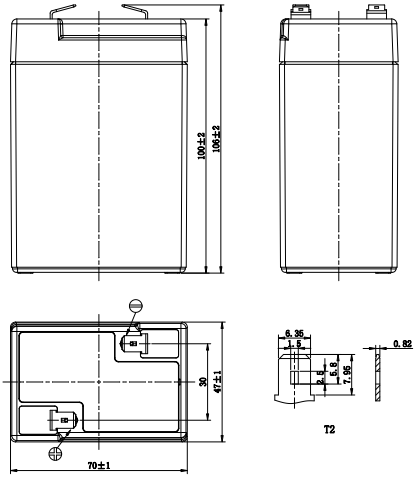
LHR SERIES-HIGH RATE

LHR621W(A) (6V21W)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		6V
Nominal Rate (25℃)	W_{15},1.67V/cell	21W/cell
Nominal Capacity (25℃)	C_{10},1.80V/cell	5.06Ah
Dimension	Length	70mm(2.76inches)
	Width	47mm(1.85inches)
	Container Height	100mm(3.94inches)
	Total Height	106mm(4.17inches)
Approx Weight		0.8kg(1.76lbs)
Terminal		T1/T2
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		141.7A
Internal Resistance (25℃)		Approx 16 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	17.9	12.7	9.79	7.96	5.76	4.14	3.33	2.40	1.85	1.33	1.06	0.905	0.610	0.499
1.80V/cell	19.2	13.5	10.3	8.28	5.94	4.25	3.41	2.45	1.88	1.36	1.08	0.918	0.619	0.506
1.75V/cell	20.3	14.0	10.6	8.51	6.09	4.34	3.48	2.49	1.92	1.38	1.09	0.929	0.626	0.511
1.70V/cell	21.2	14.6	11.0	8.76	6.25	4.44	3.55	2.53	1.95	1.40	1.11	0.942	0.632	0.516
1.67V/cell	22.0	15.0	11.2	8.94	6.36	4.51	3.60	2.57	1.97	1.41	1.12	0.950	0.637	0.520
1.60V/cell	23.3	15.6	11.6	9.20	6.53	4.62	3.68	2.62	2.01	1.44	1.14	0.966	0.646	0.526
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	33.8	21.8	18.7	15.3	10.1	8.03	6.48	4.68	3.62	2.62	2.09	1.79	1.21	0.992
1.80V/cell	36.0	23.0	19.6	15.9	10.4	8.22	6.62	4.76	3.68	2.66	2.12	1.81	1.23	1.00
1.75V/cell	37.6	23.7	20.1	16.2	10.6	8.36	6.72	4.83	3.73	2.70	2.15	1.83	1.24	1.01
1.70V/cell	38.9	24.5	20.6	16.6	10.8	8.52	6.83	4.91	3.78	2.73	2.17	1.85	1.25	1.02
1.67V/cell	40.0	25.1	21.0	16.9	11.0	8.63	6.92	4.96	3.81	2.75	2.19	1.87	1.26	1.03
1.60V/cell	41.6	25.8	21.6	17.3	11.3	8.79	7.04	5.04	3.88	2.80	2.22	1.89	1.28	1.04

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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

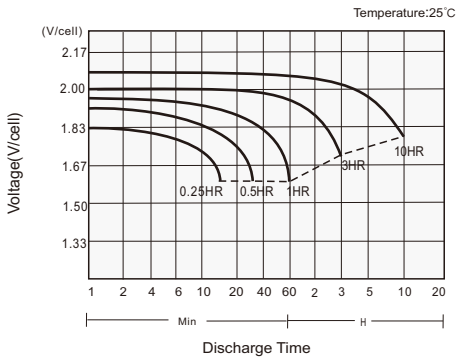
GENERAL FEATURES

- 6 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

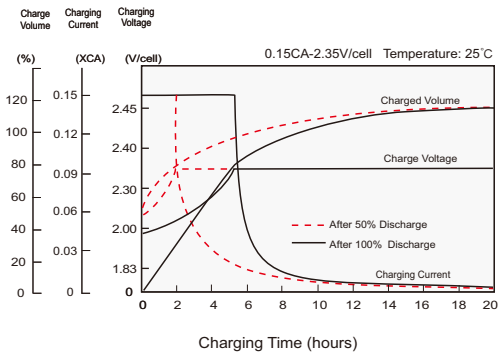
STANDARDS

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

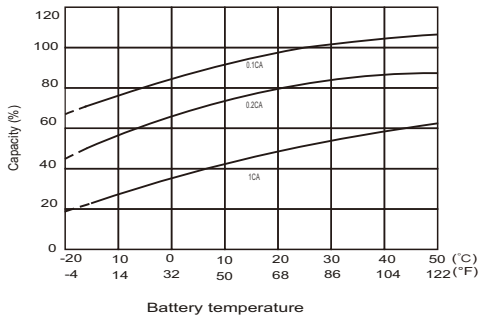
Discharge Characteristics



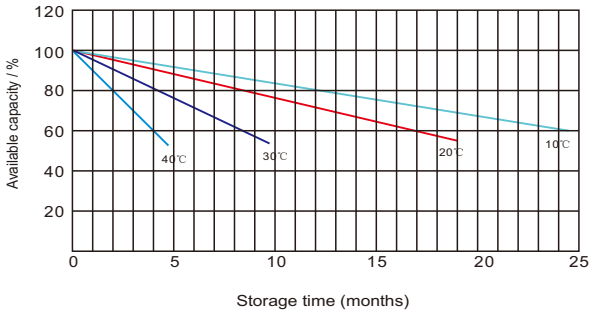
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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