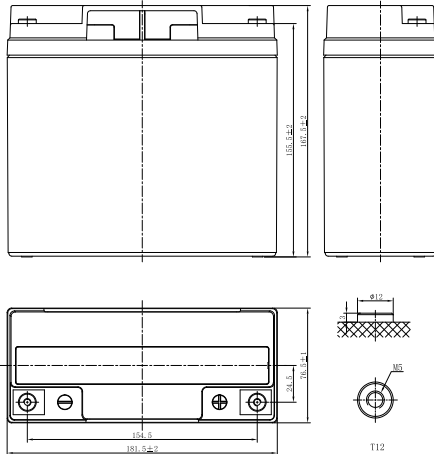


LHR SERIES-HIGH RATE

LHR1285W (12V85W)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Rate (25°C)	W ₁₅ , 1.67V/cell	85W/cell
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	18.6Ah
Dimension	Length	181.5mm (7.15inches)
	Width	76.5mm (3.01inches)
	Container Height	167.5mm (6.59inches)
	Total Height	167.5mm (6.59inches)
Approx Weight	6.00kg (13.2lbs)	
Terminal	T12/T12-I(M5)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	520.8A	
Internal Resistance (25°C)	Approx 14 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	52.6	37.4	32.4	26.3	18.5	13.7	10.9	7.90	6.33	4.74	3.75	3.12	2.13	1.74
1.80V/cell	61.4	44.1	37.7	30.3	21.0	15.4	12.1	8.65	6.88	5.12	4.04	3.36	2.28	1.86
1.75V/cell	66.9	47.3	39.9	31.8	21.9	16.0	12.6	8.94	7.09	5.26	4.14	3.44	2.32	1.89
1.70V/cell	72.5	50.5	42.2	33.5	22.9	16.6	13.0	9.24	7.32	5.41	4.24	3.52	2.36	1.92
1.67V/cell	75.8	52.5	43.5	34.4	23.4	17.0	13.3	9.41	7.44	5.50	4.30	3.56	2.39	1.94
1.60V/cell	83.6	56.9	46.6	36.5	24.7	17.8	13.9	9.83	7.75	5.70	4.45	3.67	2.44	1.98

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	114.0	78.7	64.4	50.7	35.8	26.6	21.3	15.4	12.4	9.28	7.36	6.15	4.21	3.45
1.80V/cell	128.8	90.6	73.9	57.9	40.2	29.6	23.4	16.8	13.4	10.0	7.91	6.60	4.50	3.68
1.75V/cell	138.9	95.6	77.2	60.1	41.6	30.5	24.1	17.2	13.7	10.2	8.08	6.73	4.57	3.73
1.70V/cell	147.6	100.4	81.7	62.7	43.1	31.4	24.8	17.7	14.1	10.5	8.25	6.86	4.64	3.78
1.67V/cell	153.0	103.2	85.0	64.0	43.9	32.0	25.2	17.9	14.3	10.6	8.35	6.93	4.68	3.81
1.60V/cell	155.2	109.9	87.7	67.2	45.8	33.3	26.2	18.6	14.8	10.9	8.58	7.12	4.78	3.88

LHR SERIES-HIGH RATE

LHR1285W (12V85W)



APPLICATIONS

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

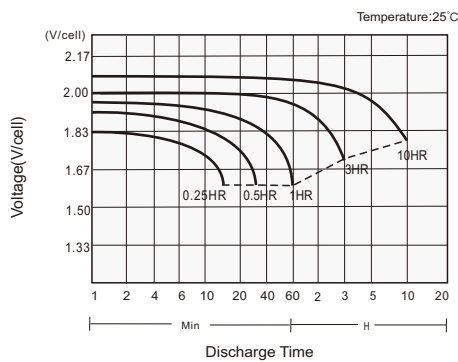
GENERAL FEATURES

- 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

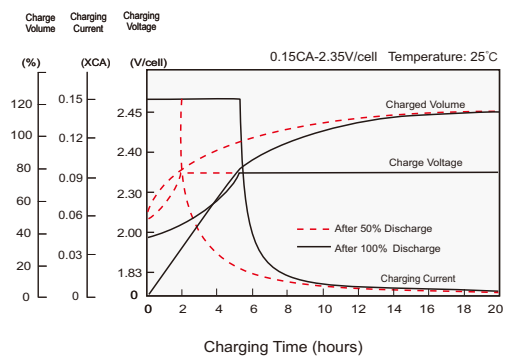
STANDARDS

- 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

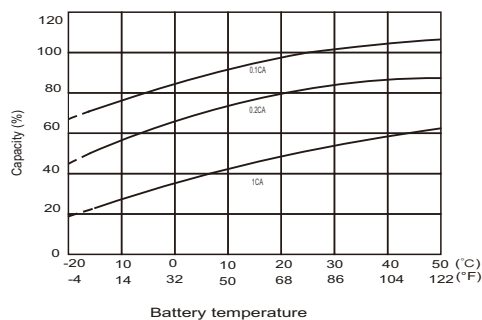
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

