



LHR Series- Battery

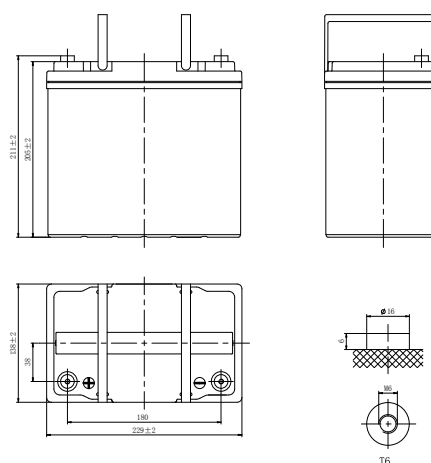
LHR12-185(12V- 185W)

Specifications of LHR12-185

Item		Specifications
Rated Voltage		12V
Nominal Rate (25°C)	W ₁₅ , 1.67V/cell	185W/cell
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	56Ah
Dimension	Length	229mm (9.02inches)
	Width	138mm (5.43inches)
	Container Height	205mm (8.07inches)
	Total Height	211mm (8.31inches)
Approx Weight		16.2kg (35.7lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1265A
Internal Resistance (25°C)		Approx 8 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)	Standby Use	Equalization Use
	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)



Layout



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	114.5	85.4	71.2	59.8	46.0	34.3	29.0	21.7	17.4	13.1	10.5	8.74	6.16	5.15
1.80V/cell	133.4	100.8	82.8	68.9	52.0	38.4	32.1	23.8	18.9	14.2	11.3	9.41	6.60	5.60
1.75V/cell	145.6	108.0	87.5	72.3	54.3	39.9	33.3	24.6	19.5	14.6	11.6	9.63	6.72	5.59
1.70V/cell	157.7	115.2	92.5	76.1	56.7	41.4	34.5	25.4	20.1	15.0	11.8	9.84	6.84	5.67
1.67V/cell	164.7	119.5	95.4	78.3	58.1	42.4	35.2	25.9	20.5	15.2	12.0	10.0	6.91	5.72
1.60V/cell	181.5	129.3	102.3	83.3	61.4	44.6	36.9	27.0	21.3	15.8	12.4	10.3	7.07	5.84

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	228.4	171.8	143.6	121.0	93.3	69.8	56.3	42.4	34.0	25.7	20.5	17.2	12.2	10.2
1.80V/cell	262.2	200.1	165.2	138.1	104.6	77.5	61.9	46.1	36.8	27.7	22.1	18.5	13.0	10.9
1.75V/cell	281.7	211.9	172.9	143.5	108.4	80.1	63.8	47.4	37.7	28.3	22.5	18.8	13.2	11.0
1.70V/cell	300.2	223.1	180.7	149.5	112.1	82.4	65.6	48.7	38.7	29.0	23.0	19.2	13.4	11.2
1.67V/cell	310.4	229.5	185.0	152.8	114.4	83.9	66.7	49.4	39.2	29.4	23.3	19.4	13.6	11.3
1.60V/cell	333.5	243.2	195.0	160.1	119.3	87.3	69.3	51.1	40.6	30.3	23.9	19.9	13.8	11.5



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Applications

- UPS
- Hospitals and Testing Laboratories
- Emergency Power Supply
- Electric starting
- Telecommunications
- Data Centers

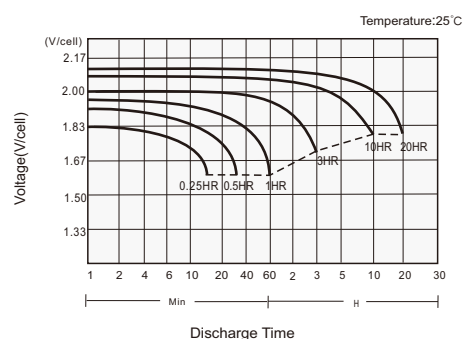
General Features

- 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

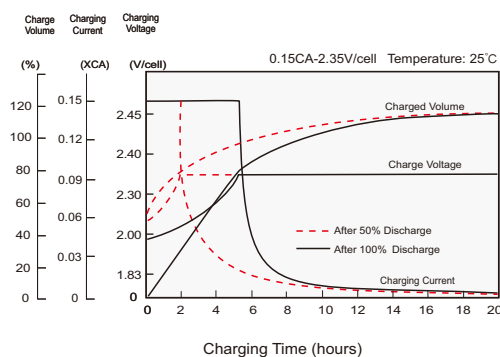
Standards

- 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

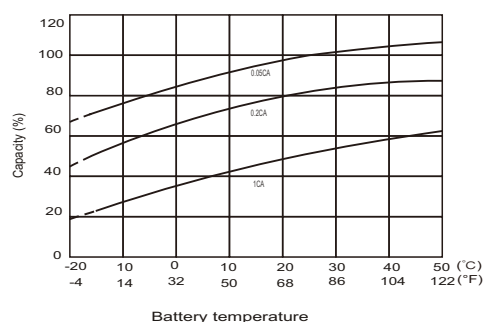
Discharge Characteristics



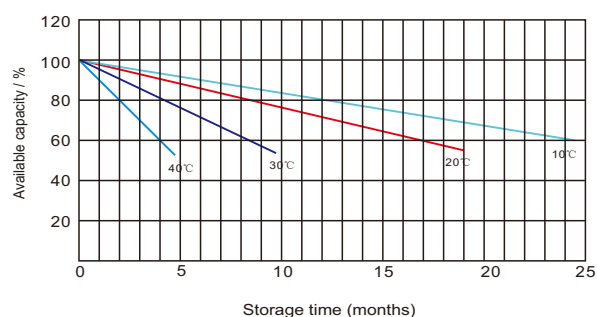
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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