LPGS Series-Gel Battery

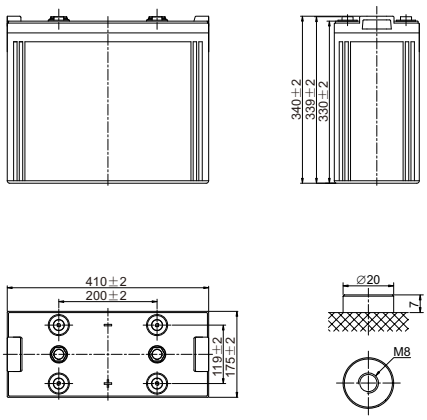
LPGS2-800(2V800Ah)

LEOCH BATTERY

Specifications

Rated Voltage	2V	
Nominal Capacity	800.0Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	410±2mm (16.1 inches) 175±2mm (6.89 inches) 330±2mm (13.0 inches) 340±2mm (13.4 inches)
Approx Weight	50.7 Kg (111.8 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	830.0 Ah 800.0 Ah 686.0 Ah 605.1 Ah 416.5 Ah	(20hr,41.5A,1.80V/cell) (10hr,80.0A,1.80V/cell) (5hr,137.2A,1.75V/cell) (3hr,201.7A,1.75V/cell) (1hr,416.5A,1.67V/cell)
Max. Discharge Current	6400A (5s)	
Internal Resistance (25℃)	Approx 0.50mΩ	
Operating Temp.Range	Discharge : -20 ~ 55°C (-4 ~ 131°F) Charge : -20 ~ 40°C (-4 ~ 104°F) Storage : -20 ~ 50°C (-4 ~ 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 200.0A.Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 200.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%
Self Discharge	LPGS series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	907.2	800.1	720.1	595.6	472.3	381.7	237.6	190.9	150.8	129.7	111.1	89.5	76.3	40.5
1.80V/cell	1072.6	908.8	801.6	639.1	496.8	400.5	250.6	200.8	157.6	136.1	116.0	92.9	80.0	41.5
1.75V/cell	1209.6	998.4	864.1	676.8	522.5	403.3	261.0	201.7	162.8	137.2	118.8	94.7	80.7	42.0
1.70V/cell	1298.5	1065.6	924.1	710.2	539.4	405.6	268.7	203.6	166.4	138.1	120.8	96.1	81.2	42.5
1.67V/cell	1346.8	1094.5	924.1	727.5	554.0	416.5	272.7	205.1	168.2	139.1	121.9	96.8	81.7	42.7
1.60V/cell	1449.9	1157.0	988.0	757.9	573.5	432.1	280.1	207.2	171.2	141.2	123.7	98.1	83.1	43.2

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1705.6	1513.6	1368.4	1138.5	908.3	737.3	461.2	371.7	295.1	254.8	218.8	177.1	151.3	80.4
1.80V/cell	1984.4	1695.1	1505.6	1211.0	948.0	769.1	484.3	388.3	307.0	266.2	227.7	183.3	158.4	82.1
1.75V/cell	2202.7	1836.1	1604.3	1270.4	989.5	771.8	502.6	390.6	316.5	267.2	232.4	186.4	159.5	83.3
1.70V/cell	2328.5	1937.5	1699.2	1322.8	1016.1	773.4	515.1	391.9	322.3	268.3	236.1	189.1	160.5	84.1
1.67V/cell	2390.0	1971.4	1685.2	1343.5	1037.4	789.7	521.0	393.0	325.0	269.3	237.6	190.0	161.3	84.4
1.60V/cell	2510.9	2042.6	1776.5	1385.6	1064.6	812.5	531.5	397.0	329.3	272.5	240.4	192.1	163.7	85.3

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LEOCH BATTERY

Applications

- Telecommunications
- Uninterruptable Power System
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.

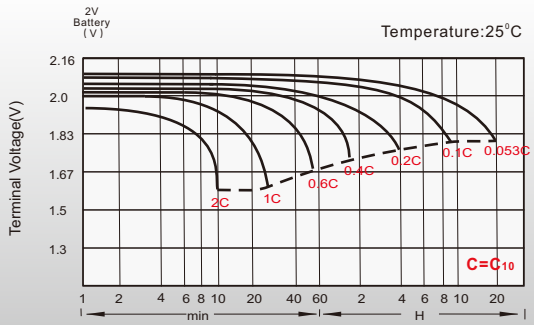
General Features

- Adopted advantage AGM-GEL technology
- Operation temperature -20~55℃
- ≤3% Self discharge @25℃

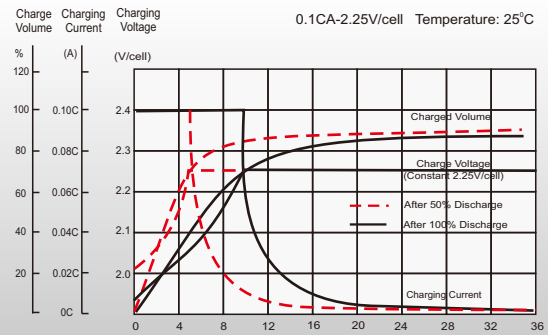
Standards

- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL Certified, CE Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

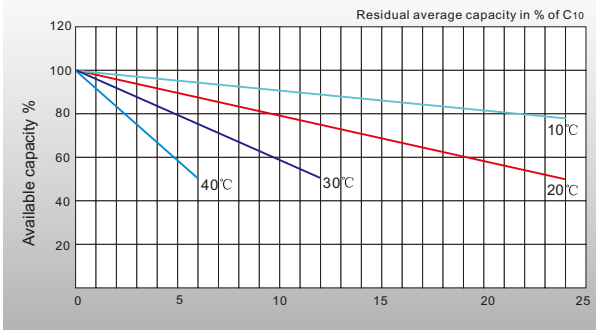
Discharge Characteristics



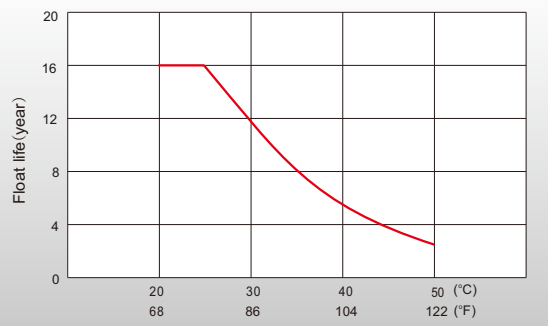
Float Charging Characteristics



General Relation of Capacity VS. Storage Time



Effect of Temperature on Long Term Float Life



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