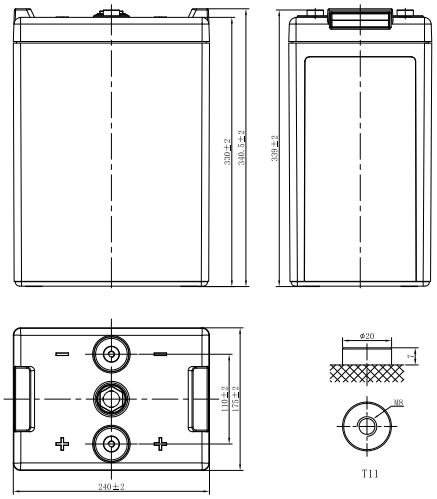
LPGS SERIES-HYBRID GEL BATTERY

LPGS2-500 (2V500Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	500Ah
Dimension	Length	240mm (9.45inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	339mm (13.3inches)
Approx Weight		30kg (66.1lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		6000A
Internal Resistance (25˚C)		Approx 0.6 mΩ (Fully charged)
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)
Max.Charging Current (25˚C)		0.25C
Charge voltage (25˚C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	25˚C (77°F)	100%
	0˚C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). LPGS series batteries can be stored 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.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	375.3	339.3	315.0	275.1	240.8	153.8	117.0	94.1	79.4	69.0	56.0	46.9	25.1
1.80V/cell	465.8	412.7	361.7	307.7	266.5	167.4	126.6	101.5	85.6	74.0	60.0	50.0	26.5
1.75V/cell	513.8	435.1	378.5	320.2	276.4	172.5	130.0	104.0	87.5	75.5	61.1	50.8	26.8
1.70V/cell	571.8	487.0	402.9	332.3	286.5	178.0	133.8	106.6	89.5	77.1	62.2	51.6	27.2
1.67V/cell	591.9	503.9	414.1	339.8	292.5	181.0	135.8	108.1	90.6	78.1	62.8	52.0	27.4
1.60V/cell	621.7	525.1	421.8	357.3	306.7	188.5	140.8	111.7	93.4	80.2	64.3	53.1	27.9
Constant Power Discharge (Watts/cell) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	691.0	627.5	578.4	533.5	468.1	300.6	229.5	185.0	156.4	136.0	110.7	92.7	49.9
1.80V/cell	848.7	755.9	658.6	592.2	514.5	325.5	247.3	198.7	167.9	145.5	118.3	98.8	52.6
1.75V/cell	926.1	789.0	683.2	611.5	529.8	333.6	252.8	202.9	171.2	148.1	120.2	100.2	53.3
1.70V/cell	1018.9	874.5	720.5	629.8	545.5	342.5	258.9	207.3	174.6	150.9	122.1	101.6	53.9
1.67V/cell	1047.6	898.9	733.2	640.7	554.2	347.0	262.1	209.6	176.4	152.4	123.2	102.4	54.3
1.60V/cell	1080.8	921.9	740.4	666.6	575.7	358.8	270.2	215.5	181.0	156.1	125.7	104.3	55.2

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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.

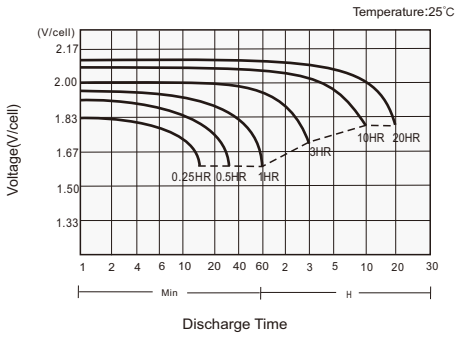
GENERAL FEATURES

- 16 years design life (25℃)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

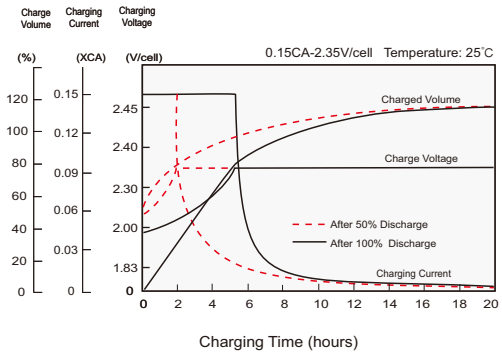
STANDARDS

- IEC60896 Certified
- Classified as"Very Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

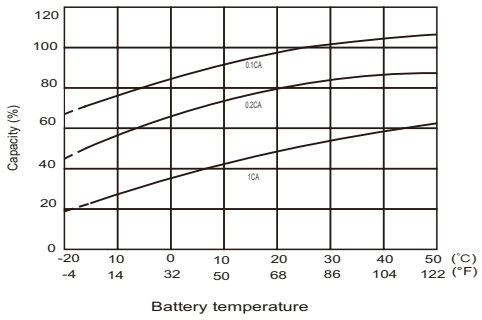
Discharge Characteristics



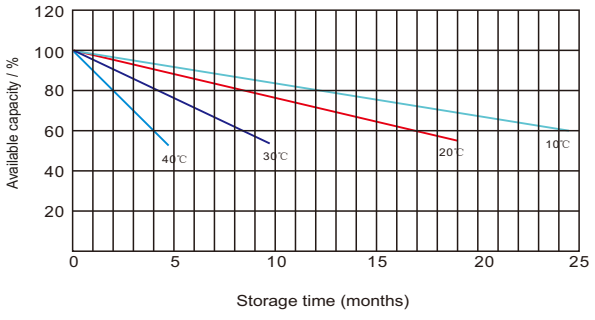
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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Publication No.:LB-LPGS2-500-PD-EN-V2.2-20260819