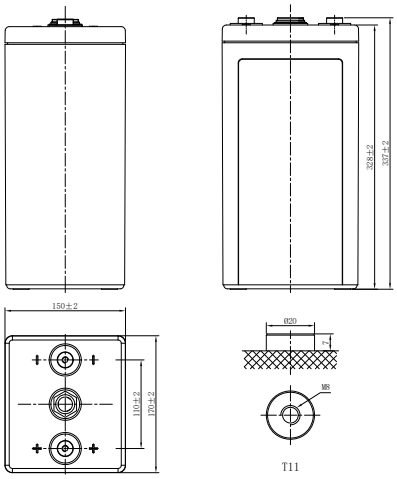
LPGS SERIES-HYBRID GEL BATTERY

LPGS2-300 (2V300Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	300Ah
Dimension	Length	170mm (6.69inches)
	Width	150mm (5.91inches)
	Container Height	328mm (12.9inches)
	Total Height	337mm (13.3inches)
Approx Weight		18.5kg (40.8lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3900A
Internal Resistance (25˚C)		Approx 0.8 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	225.2	203.5	189.0	165.1	144.5	92.3	70.2	56.5	47.7	41.4	33.6	28.1	15.1
1.80V/cell	279.4	247.6	217.0	184.6	159.9	100.4	76.0	60.9	51.3	44.4	36.0	30.0	15.9
1.75V/cell	308.2	261.0	227.1	192.1	165.8	103.5	78.0	62.4	52.5	45.3	36.7	30.5	16.1
1.70V/cell	343.0	292.2	241.7	199.4	171.9	106.8	80.3	64.0	53.7	46.3	37.3	30.9	16.3
1.67V/cell	355.1	302.3	248.4	203.9	175.5	108.6	81.5	64.9	54.4	46.8	37.7	31.2	16.4
1.60V/cell	372.9	315.0	253.1	214.4	184.0	113.1	84.5	67.0	56.0	48.1	38.6	31.9	16.7
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	414.5	376.4	347.0	320.1	280.9	180.4	137.7	111.0	93.8	81.6	66.4	55.6	30.0
1.80V/cell	509.1	453.5	395.2	355.3	308.7	195.3	148.4	119.2	100.8	87.3	71.0	59.3	31.6
1.75V/cell	555.7	473.4	409.9	366.9	317.9	200.2	151.7	121.7	102.7	88.9	72.1	60.1	32.0
1.70V/cell	611.3	524.6	432.3	377.9	327.3	205.5	155.4	124.4	104.8	90.5	73.3	60.9	32.3
1.67V/cell	628.5	539.3	439.9	384.4	332.5	208.2	157.3	125.8	105.8	91.5	73.9	61.4	32.6
1.60V/cell	648.5	553.0	444.2	400.0	345.4	215.3	162.1	129.3	108.6	93.6	75.4	62.6	33.1

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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.

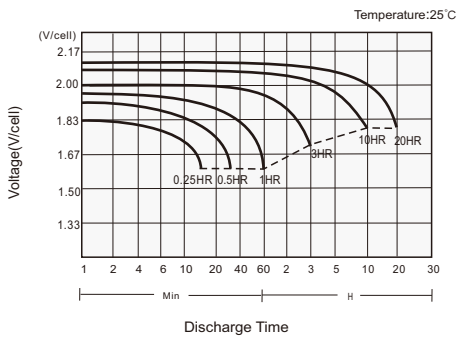
GENERAL FEATURES

- 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

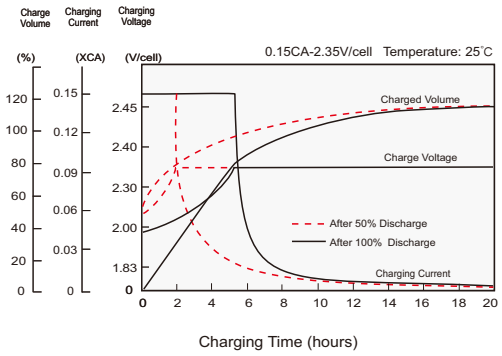
STANDARDS

- 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

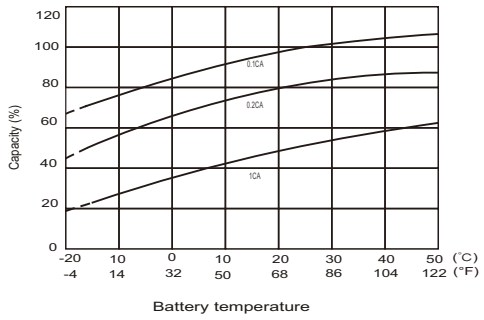
Discharge Characteristics



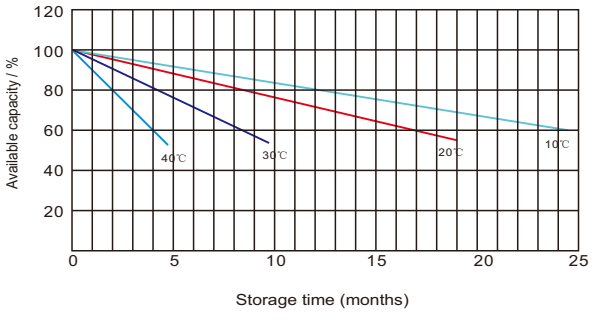
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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