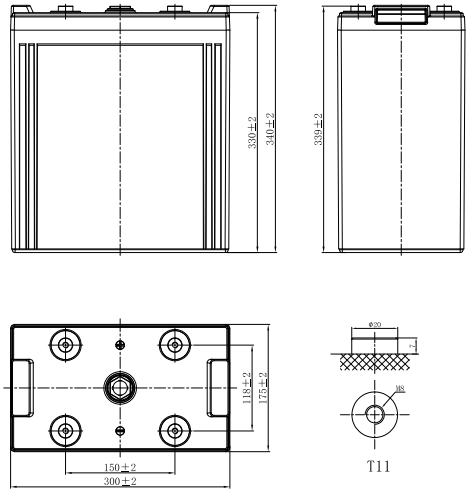
LPGS SERIES-HYBRID GEL BATTERY

LPGS2-600 (2V600Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	600Ah
Dimension	Length	300mm (11.8inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	340mm (13.4inches)
Approx Weight		37kg (81.6lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		6600A
Internal Resistance (25˚C)		Approx 0.4 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	450.4	407.1	378.0	330.2	289.0	184.6	140.4	113.0	95.3	82.7	67.2	56.2	30.1
1.80V/cell	559.0	495.2	434.1	369.2	319.8	200.8	151.9	121.8	102.7	88.8	72.0	60.0	31.8
1.75V/cell	616.5	522.1	454.2	384.2	331.6	207.0	156.0	124.8	105.0	90.6	73.3	60.9	32.2
1.70V/cell	686.1	584.4	483.5	398.8	343.8	213.6	160.6	127.9	107.4	92.6	74.6	61.9	32.6
1.67V/cell	710.3	604.7	496.9	407.8	351.0	217.2	163.0	129.7	108.7	93.7	75.4	62.4	32.9
1.60V/cell	746.0	630.1	506.2	428.8	368.1	226.2	169.0	134.0	112.1	96.3	77.2	63.8	33.4
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	829.2	753.1	694.1	640.2	561.7	360.8	275.3	222.0	187.6	163.1	132.9	111.3	59.9
1.80V/cell	1018.5	907.2	790.4	710.6	617.5	390.5	296.7	238.4	201.5	174.5	142.0	118.6	63.2
1.75V/cell	1111.4	947.0	819.8	733.8	635.8	400.3	303.3	243.5	205.4	177.7	144.3	120.2	63.9
1.70V/cell	1222.7	1049.4	864.7	755.7	654.6	410.9	310.7	248.7	209.5	181.1	146.5	121.9	64.7
1.67V/cell	1257.3	1078.8	879.8	768.8	665.0	416.3	314.5	251.6	211.7	182.9	147.9	122.8	65.1
1.60V/cell	1297.1	1106.3	888.4	800.0	690.8	430.5	324.2	258.6	217.2	187.3	150.9	125.1	66.2

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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.

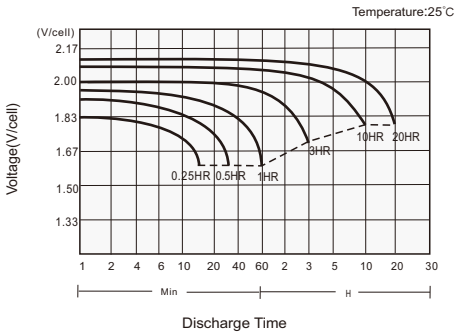
GENERAL FEATURES

- 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

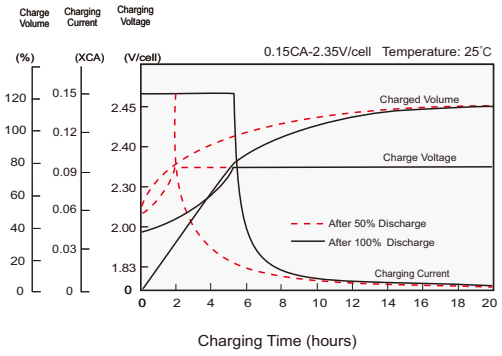
STANDARDS

- 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

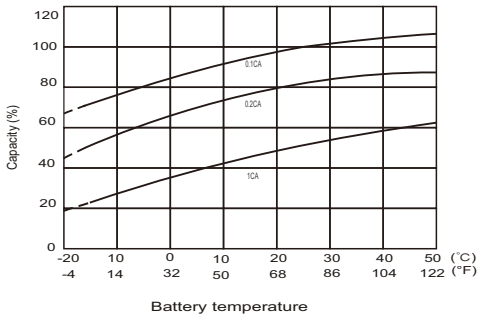
Discharge Characteristics



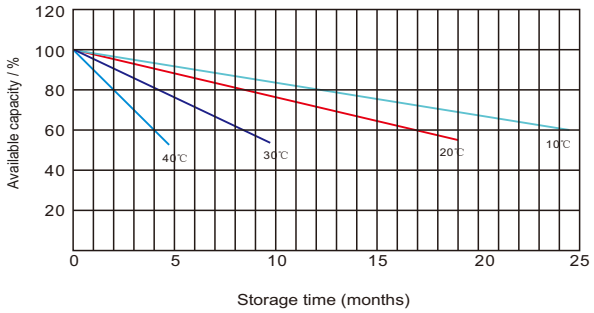
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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