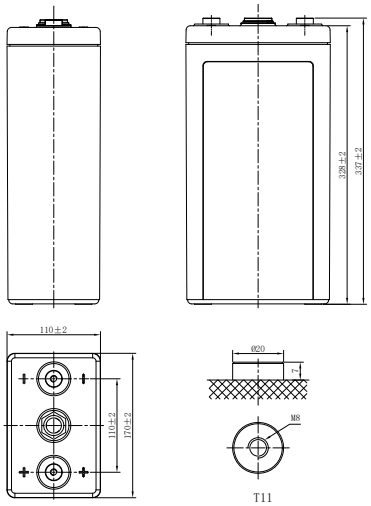
LPGS SERIES-HYBRID GEL BATTERY

LPGS2-200 (2V200Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	200Ah
Dimension	Length	170mm (6.69inches)
	Width	110mm (4.33inches)
	Container Height	328mm (12.9inches)
	Total Height	337mm (13.3inches)
Approx Weight		13.3kg (29.3lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3000A
Internal Resistance (25˚C)		Approx 0.9 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	150.1	135.7	126.0	110.1	96.3	61.5	46.8	37.7	31.8	27.6	22.4	18.7	10.0
1.80V/cell	186.2	165.0	144.7	123.1	106.6	66.9	50.6	40.6	34.2	29.6	24.0	20.0	10.6
1.75V/cell	205.5	174.0	151.4	128.1	110.5	69.0	52.0	41.6	35.0	30.2	24.4	20.3	10.7
1.70V/cell	228.7	194.8	161.2	132.9	114.6	71.2	53.5	42.6	35.8	30.9	24.9	20.6	10.9
1.67V/cell	236.7	201.5	165.6	135.9	117.0	72.4	54.3	43.2	36.2	31.2	25.1	20.8	11.0
1.60V/cell	248.6	210.0	168.7	142.9	122.7	75.4	56.3	44.7	37.4	32.1	25.7	21.3	11.1

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	276.3	251.0	231.3	213.4	187.2	120.3	91.8	74.0	62.5	54.4	44.3	37.1	20.0
1.80V/cell	339.4	302.3	263.4	236.9	205.8	130.2	98.9	79.5	67.2	58.2	47.3	39.5	21.1
1.75V/cell	370.4	315.6	273.2	244.6	211.9	133.4	101.1	81.2	68.5	59.2	48.1	40.1	21.3
1.70V/cell	407.5	349.7	288.2	251.9	218.2	137.0	103.6	82.9	69.8	60.4	48.8	40.6	21.6
1.67V/cell	419.0	359.5	293.3	256.3	221.7	138.8	104.8	83.9	70.6	61.0	49.3	40.9	21.7
1.60V/cell	432.3	368.6	296.1	266.7	230.3	143.5	108.1	86.2	72.4	62.4	50.3	41.7	22.1

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LPGS2-200 (2V200Ah)

LEOCH BATTERY

APPLICATIONS

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

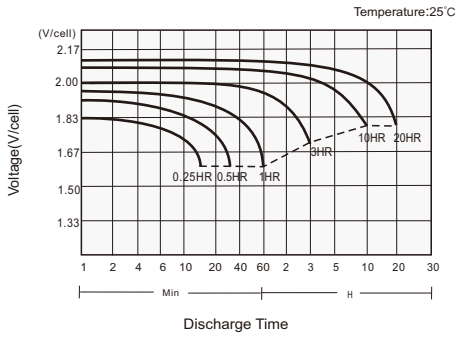
GENERAL FEATURES

- 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

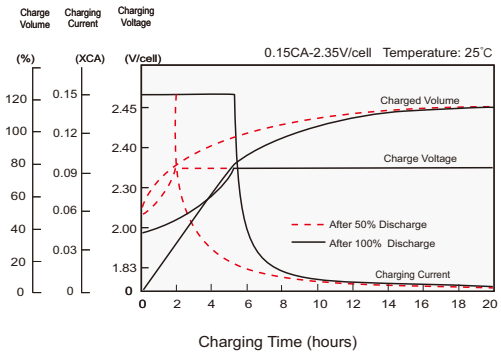
STANDARDS

- 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

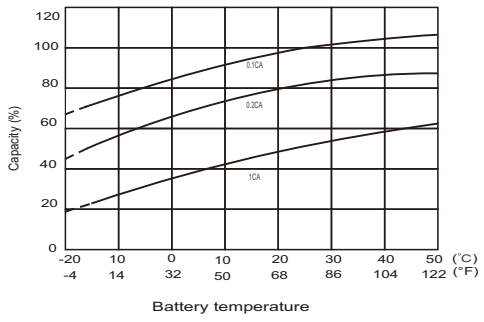
Discharge Characteristics



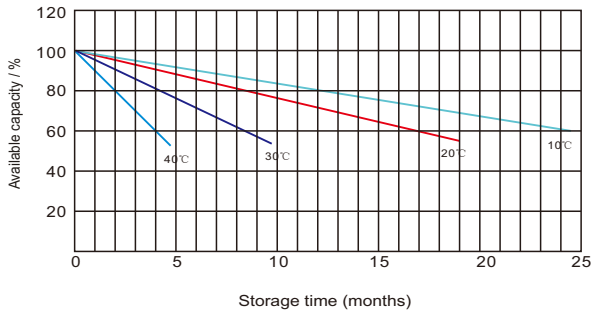
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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