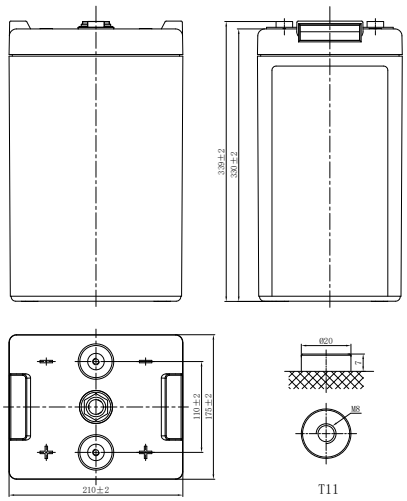
LPGS SERIES-HYBRID GEL BATTERY

LPGS2-400 (2V400Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	400Ah
Dimension	Length	210mm (8.27inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	339mm (13.3inches)
Approx Weight		25.5kg (56.2lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		5200A
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	300.2	271.4	252.0	220.1	192.7	123.1	93.6	75.3	63.5	55.2	44.8	37.5	20.1
1.80V/cell	372.6	330.1	289.4	246.1	213.2	133.9	101.3	81.2	68.4	59.2	48.0	40.0	21.2
1.75V/cell	411.0	348.0	302.8	256.1	221.1	138.0	104.0	83.2	70.0	60.4	48.9	40.6	21.5
1.70V/cell	457.4	389.6	322.4	265.9	229.2	142.4	107.0	85.3	71.6	61.7	49.7	41.3	21.7
1.67V/cell	473.5	403.1	331.3	271.8	234.0	144.8	108.7	86.5	72.5	62.4	50.3	41.6	21.9
1.60V/cell	497.3	420.1	337.5	285.9	245.4	150.8	112.7	89.4	74.7	64.2	51.4	42.5	22.3

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	552.8	502.0	462.7	426.8	374.5	240.5	183.6	148.0	125.1	108.8	88.6	74.2	40.0
1.80V/cell	679.0	604.7	526.9	473.8	411.6	260.4	197.8	159.0	134.3	116.4	94.6	79.0	42.1
1.75V/cell	740.9	631.3	546.5	489.2	423.8	266.9	202.2	162.3	137.0	118.5	96.2	80.1	42.6
1.70V/cell	815.1	699.5	576.5	503.8	436.4	274.0	207.2	165.8	139.7	120.7	97.7	81.3	43.1
1.67V/cell	838.1	719.1	586.6	512.5	443.4	277.6	209.7	167.7	141.1	121.9	98.6	81.9	43.4
1.60V/cell	864.7	737.4	592.3	533.3	460.6	287.0	216.1	172.4	144.8	124.8	100.6	83.4	44.2

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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.

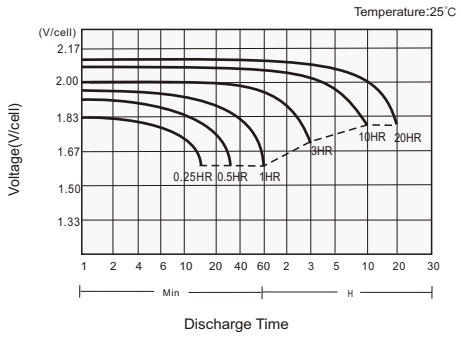
GENERAL FEATURES

- 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

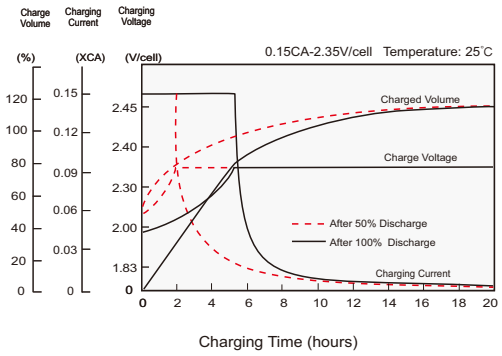
STANDARDS

- 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

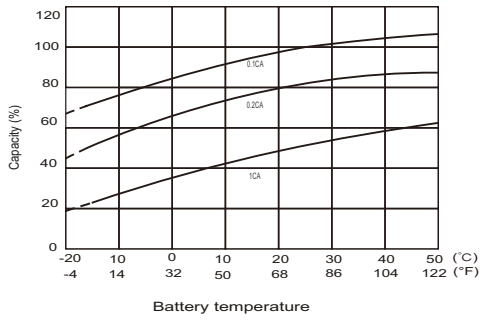
Discharge Characteristics



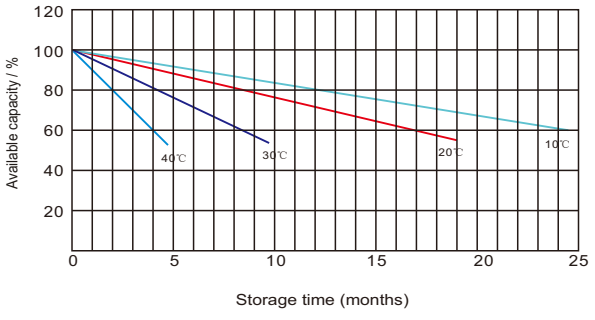
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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