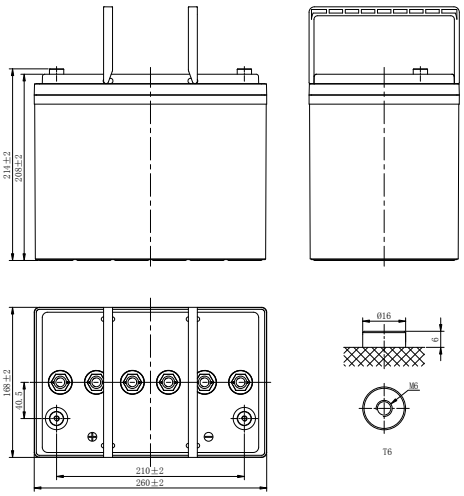
LPGS SERIES-HYBRID GEL BATTERY

LPGS12-80 (12V80Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	80Ah
Dimension	Length	260mm (10.2inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	214mm (8.43inches)
Approx Weight		24.0kg (52.9lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1840A
Internal Resistance (25˚C)		Approx 6.2 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	86.2	72.1	57.0	43.3	35.8	22.8	17.7	14.5	12.4	10.8	8.76	7.42	4.00
1.80V/cell	102.7	84.0	65.6	49.1	39.8	24.7	19.0	15.5	13.3	11.5	9.34	8.00	4.12
1.75V/cell	114.5	92.2	69.9	52.0	42.1	25.9	19.7	16.0	13.6	11.9	9.50	8.08	4.16
1.70V/cell	123.6	98.1	73.8	54.6	44.0	27.2	20.4	16.5	14.0	12.1	9.63	8.12	4.24
1.67V/cell	130.2	103.2	77.2	56.2	45.6	28.0	21.1	17.0	14.3	12.4	9.78	8.20	4.28
1.60V/cell	140.4	110.8	82.1	59.4	47.8	29.0	21.9	17.4	14.6	12.7	9.90	8.34	4.32
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	162.1	137.0	109.2	83.6	69.4	44.4	34.6	28.5	24.3	21.2	17.4	14.7	7.95
1.80V/cell	190.6	157.4	124.1	94.1	76.8	47.9	37.0	30.2	26.0	22.7	18.5	15.9	8.18
1.75V/cell	209.7	171.0	131.2	98.7	80.8	50.1	38.2	31.1	26.6	23.3	18.7	16.0	8.25
1.70V/cell	223.0	180.2	137.4	103.1	84.0	52.4	39.4	32.0	27.2	23.7	19.0	16.1	8.40
1.67V/cell	232.6	187.8	142.6	105.3	86.5	53.5	40.7	32.8	27.8	24.2	19.2	16.2	8.47
1.60V/cell	246.6	199.4	150.3	110.7	90.1	55.2	41.9	33.5	28.2	24.6	19.4	16.4	8.54

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LEOCH BATTERY

APPLICATIONS

- UPS
- Wind,solar and renewable energy
- Street lamp,CATV,oil and gas
- Poor grid reliability back-up applications
- Hybrid telecom remote base stations
- All extreme environment off-grid applications

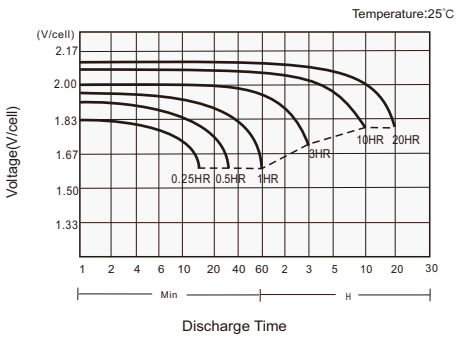
GENERAL FEATURES

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

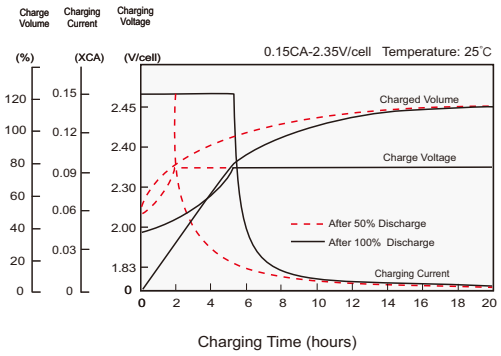
STANDARDS

- IEC60896 Certified
- Classified as"Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in Leoch®IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

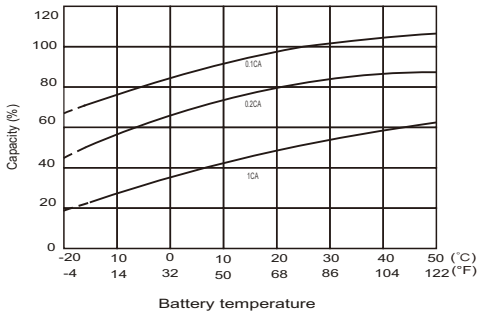
Discharge Characteristics



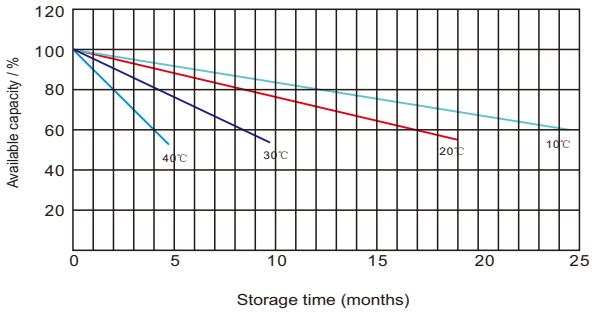
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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