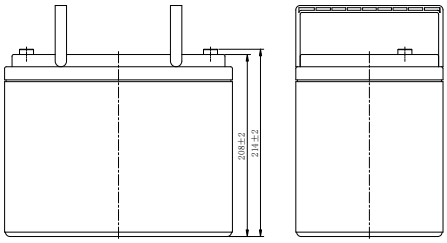
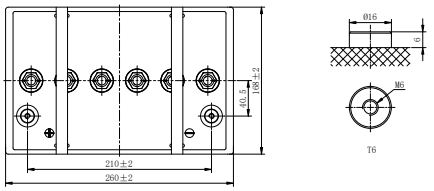
LPGS SERIES-HYBRID GEL BATTERY

LPGS12-75 (12V75Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	75Ah
Dimension	Length	260mm (10.2inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	214mm (8.43inches)
Approx Weight		22.5kg (49.6lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1725A
Internal Resistance (25˚C)		Approx 6.6 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	80.8	67.6	53.4	40.6	33.6	21.3	16.6	13.6	11.6	10.1	8.21	6.96	3.75
1.80V/cell	96.3	78.8	61.5	46.1	37.4	23.2	17.8	14.5	12.5	10.8	8.76	7.50	3.86
1.75V/cell	107.3	86.5	65.5	48.7	39.5	24.3	18.5	15.0	12.8	11.1	8.91	7.58	3.90
1.70V/cell	115.9	92.0	69.1	51.1	41.2	25.5	19.1	15.5	13.1	11.4	9.03	7.61	3.98
1.67V/cell	122.1	96.7	72.4	52.7	42.7	26.2	19.8	15.9	13.4	11.6	9.17	7.69	4.01
1.60V/cell	131.6	103.9	77.0	55.7	44.8	27.2	20.5	16.3	13.7	11.9	9.28	7.82	4.05
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	152.0	128.4	102.4	78.4	65.1	41.6	32.4	26.7	22.8	19.9	16.3	13.8	7.46
1.80V/cell	178.7	147.5	116.4	88.3	72.0	45.0	34.7	28.3	24.4	21.3	17.3	14.9	7.67
1.75V/cell	196.6	160.3	123.0	92.5	75.8	46.9	35.8	29.2	24.9	21.8	17.6	15.0	7.73
1.70V/cell	209.1	168.9	128.8	96.6	78.8	49.1	36.9	30.0	25.5	22.2	17.8	15.1	7.88
1.67V/cell	218.1	176.0	133.7	98.7	81.1	50.1	38.2	30.8	26.0	22.7	18.0	15.2	7.94
1.60V/cell	231.2	187.0	140.9	103.7	84.5	51.7	39.3	31.4	26.4	23.1	18.2	15.4	8.00

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-75 (12V75Ah)

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

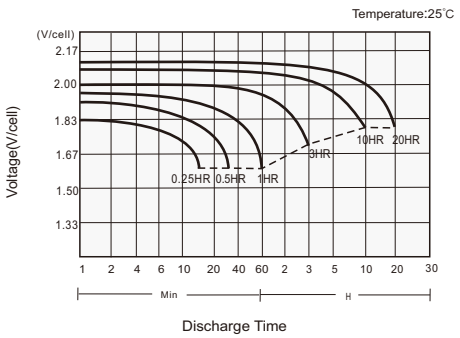
GENERAL FEATURES

- 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

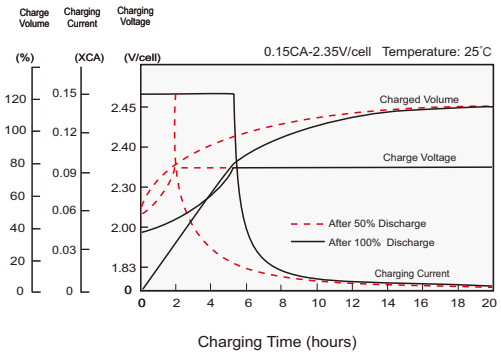
STANDARDS

- 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

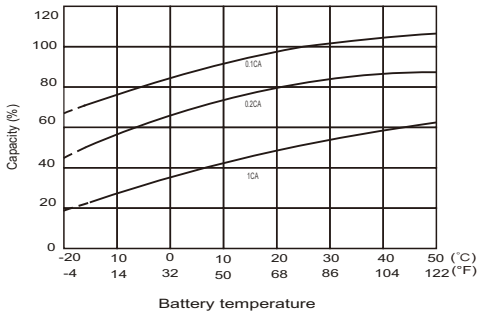
Discharge Characteristics



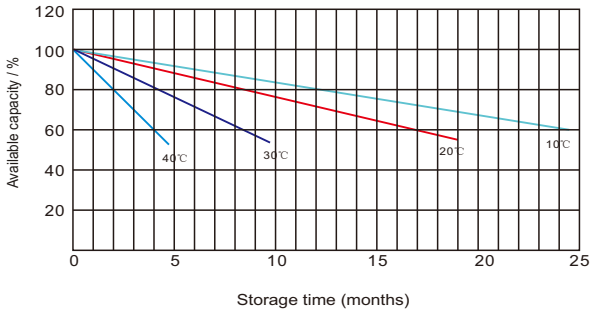
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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