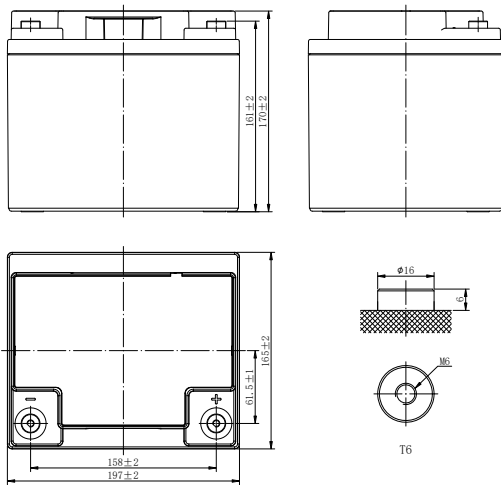


LPGS SERIES-HYBRID GEL BATTERY

LPGS12-38 (12V38Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ : 1.80V/cell	38Ah
Dimension	Length	197mm (7.76inches)
	Width	165mm (6.50inches)
	Container Height	170mm (6.69inches)
	Total Height	170mm (6.69inches)
Approx Weight	12.8kg (28.2lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	950A	
Internal Resistance (25°C)	Approx 10 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. Coefficient	-3mV/cell/°C	
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	≤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.	
Self Discharge		

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	41.0	34.3	27.1	20.6	17.0	10.8	8.41	6.91	5.87	5.11	4.16	3.53	1.90
1.80V/cell	48.8	39.9	31.2	23.3	18.9	11.8	9.03	7.35	6.31	5.48	4.44	3.80	1.96
1.75V/cell	54.4	43.8	33.2	24.7	20.0	12.3	9.35	7.60	6.46	5.64	4.51	3.84	1.98
1.70V/cell	58.7	46.6	35.0	25.9	20.9	12.9	9.67	7.83	6.63	5.76	4.57	3.86	2.01
1.67V/cell	61.8	49.0	36.7	26.7	21.6	13.3	10.0	8.06	6.79	5.88	4.65	3.90	2.03
1.60V/cell	66.7	52.6	39.0	28.2	22.7	13.8	10.4	8.25	6.92	6.01	4.70	3.96	2.05
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	77.0	65.1	51.9	39.7	33.0	21.1	16.4	13.6	11.5	10.1	8.25	7.01	3.78
1.80V/cell	90.5	74.8	59.0	44.7	36.5	22.8	17.6	14.4	12.4	10.8	8.77	7.54	3.89
1.75V/cell	99.6	81.2	62.3	46.9	38.4	23.8	18.1	14.8	12.6	11.1	8.90	7.60	3.92
1.70V/cell	105.9	85.6	65.3	49.0	39.9	24.9	18.7	15.2	12.9	11.3	9.01	7.63	3.99
1.67V/cell	110.5	89.2	67.7	50.0	41.1	25.4	19.3	15.6	13.2	11.5	9.13	7.70	4.02
1.60V/cell	117.1	94.7	71.4	52.6	42.8	26.2	19.9	15.9	13.4	11.7	9.22	7.81	4.06

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-38 (12V38Ah)



APPLICATIONS

- Communication power supply
- Engine starting
- Pump systems
- Alarm installations
- Marine and power stations

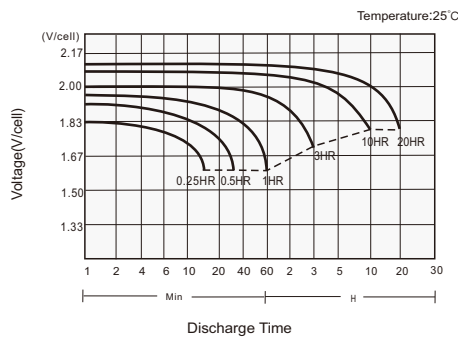
GENERAL FEATURES

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

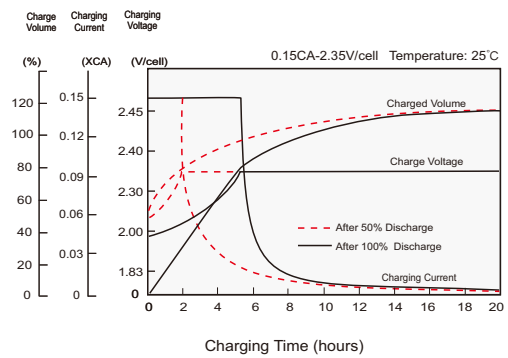
STANDARDS

- 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

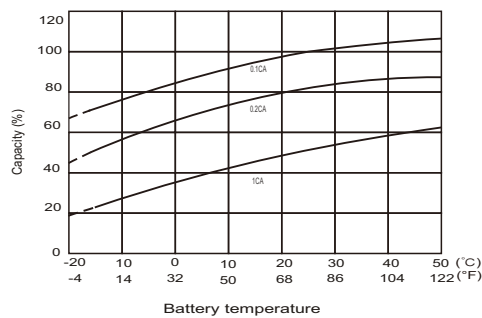
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

