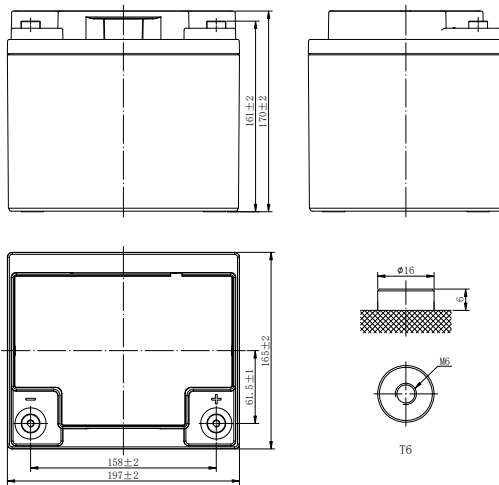


LPGS SERIES-HYBRID GEL BATTERY

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	
	-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	49.2	41.3	31.8	23.7	20.0	12.0	9.07	7.22	6.04	5.24	4.26	3.56	1.91
1.80V/cell	57.2	47.6	35.9	26.5	22.2	13.1	9.81	7.79	6.50	5.62	4.56	3.80	2.01
1.75V/cell	60.5	50.0	37.5	27.6	23.0	13.5	10.1	7.98	6.65	5.74	4.64	3.86	2.04
1.70V/cell	63.9	52.6	39.2	28.6	23.8	13.9	10.4	8.18	6.80	5.86	4.73	3.92	2.07
1.67V/cell	65.9	54.1	40.2	29.3	24.3	14.1	10.5	8.29	6.89	5.93	4.77	3.95	2.08
1.60V/cell	70.7	57.6	42.4	30.8	25.5	14.7	10.9	8.57	7.10	6.10	4.89	4.04	2.12

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	94.5	79.6	61.4	46.0	38.9	23.5	17.8	14.2	11.9	10.3	8.42	7.05	3.80
1.80V/cell	108.7	90.9	68.8	51.0	42.8	25.4	19.2	15.2	12.8	11.1	8.99	7.51	4.00
1.75V/cell	113.8	94.4	71.3	52.7	44.0	26.1	19.6	15.6	13.0	11.3	9.14	7.61	4.05
1.70V/cell	118.9	98.4	73.8	54.2	45.4	26.8	20.1	15.9	13.3	11.5	9.28	7.72	4.10
1.67V/cell	123.0	100.5	75.2	55.2	46.1	27.1	20.3	16.1	13.4	11.6	9.36	7.78	4.12
1.60V/cell	128.3	105.4	78.5	57.4	47.9	28.0	20.9	16.5	13.8	11.9	9.56	7.92	4.19

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-38 (12V38Ah)



APPLICATIONS

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

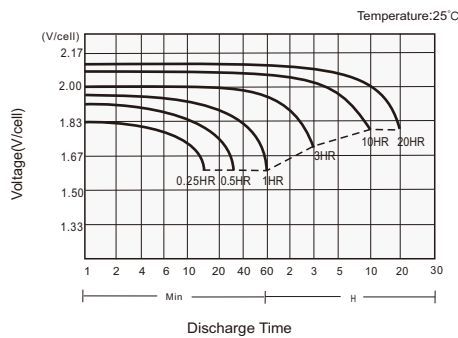
GENERAL FEATURES

- 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

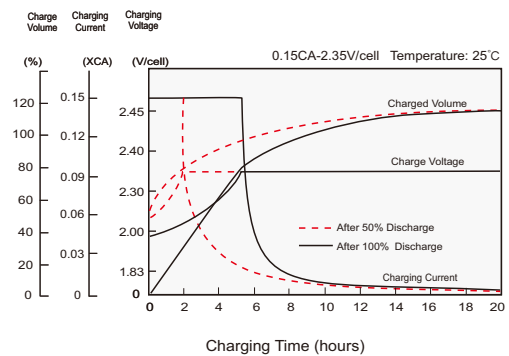
STANDARDS

- 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

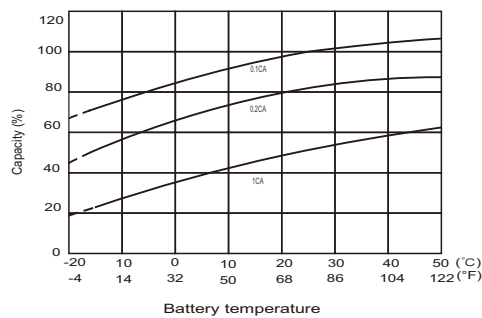
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

