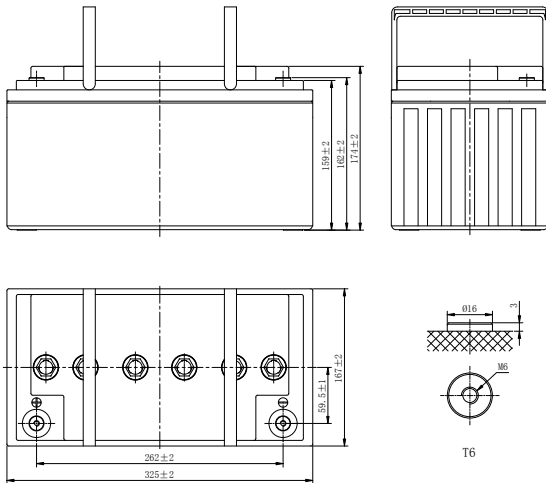


LPGS SERIES-HYBRID GEL BATTERY

LPGS12-65 (12V65Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ 1.80V/cell	65Ah
Dimension	Length	325mm (12.8inches)
	Width	167mm (6.57inches)
	Container Height	174mm (6.85inches)
	Total Height	174mm (6.85inches)
Approx Weight	21.05kg (46.4lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1495A	
Internal Resistance (25°C)	Approx 7 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
	40°C (104°F)	103%
Effect of temp. to Capacity	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	70.1	58.6	46.3	35.2	29.1	18.5	14.4	11.8	10.0	8.74	7.12	6.03	3.25
1.80V/cell	83.4	68.3	53.3	39.9	32.4	20.1	15.4	12.6	10.8	9.38	7.59	6.50	3.35
1.75V/cell	93.0	74.9	56.8	42.2	34.2	21.1	16.0	13.0	11.1	9.64	7.72	6.57	3.38
1.70V/cell	100.5	79.7	59.9	44.3	35.7	22.1	16.5	13.4	11.3	9.85	7.82	6.60	3.45
1.67V/cell	105.8	83.8	62.8	45.7	37.0	22.7	17.2	13.8	11.6	10.1	7.95	6.66	3.48
1.60V/cell	114.1	90.0	66.7	48.3	38.8	23.5	17.8	14.1	11.8	10.3	8.04	6.77	3.51
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	131.7	111.3	88.7	67.9	56.4	36.0	28.1	23.2	19.7	17.3	14.1	12.0	6.46
1.80V/cell	154.9	127.9	100.9	76.5	62.4	39.0	30.0	24.6	21.1	18.4	15.0	12.9	6.65
1.75V/cell	170.4	138.9	106.6	80.2	65.7	40.7	31.0	25.3	21.6	18.9	15.2	13.0	6.70
1.70V/cell	181.2	146.4	111.6	83.8	68.3	42.5	32.0	26.0	22.1	19.3	15.4	13.1	6.83
1.67V/cell	189.0	152.6	115.8	85.6	70.2	43.5	33.1	26.7	22.5	19.6	15.6	13.2	6.88
1.60V/cell	200.4	162.0	122.1	89.9	73.2	44.8	34.1	27.2	22.9	20.0	15.8	13.4	6.94

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-65 (12V65Ah)



APPLICATIONS

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

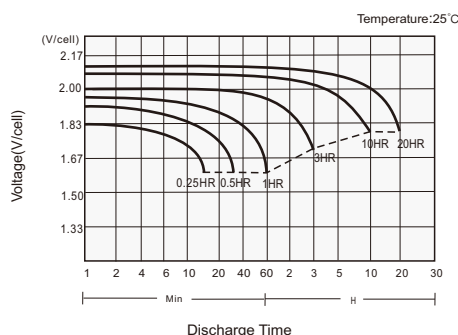
GENERAL FEATURES

- 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

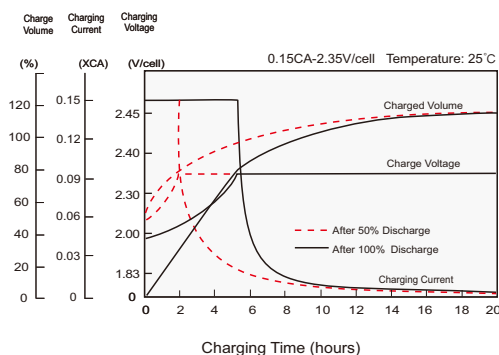
STANDARDS

- 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

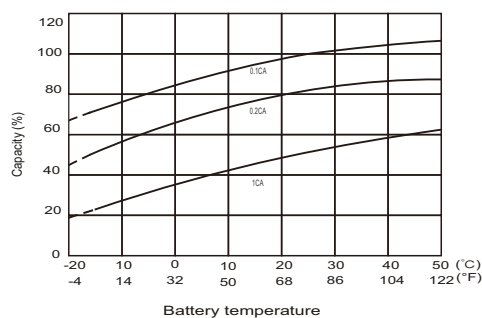
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

