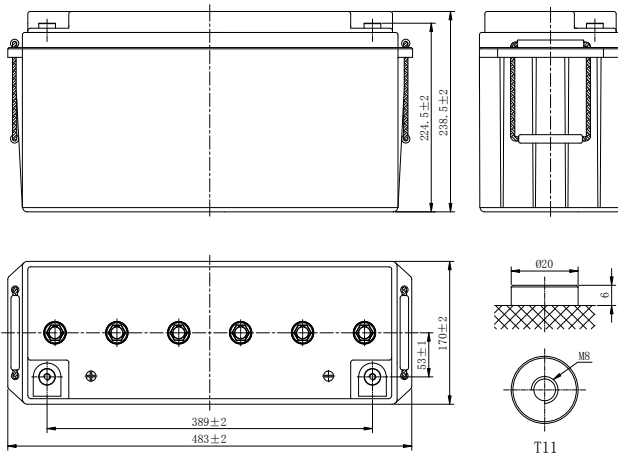


# LPGS SERIES-HYBRID GEL BATTERY

## LPGS12-150 (12V150Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>10</sub> : 1.80V/cell	150Ah
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx Weight	43.6kg (96.1lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3000A	
Internal Resistance (25°C)	Approx 3.5 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%
	≤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	161.7	135.2	106.9	81.2	67.2	42.7	33.2	27.3	23.2	20.2	16.4	13.9	7.50
1.80V/cell	192.5	157.5	123.0	92.1	74.7	46.4	35.6	29.0	24.9	21.7	17.5	15.0	7.73
1.75V/cell	214.6	173.0	131.1	97.4	79.0	48.6	36.9	30.0	25.5	22.3	17.8	15.2	7.80
1.70V/cell	231.8	183.9	138.3	102.3	82.5	51.0	38.2	30.9	26.2	22.7	18.1	15.3	7.95
1.67V/cell	244.1	193.5	144.8	105.4	85.4	52.4	39.6	31.8	26.8	23.2	18.3	15.4	8.03
1.60V/cell	263.2	207.8	153.9	111.4	89.6	54.3	41.0	32.6	27.3	23.7	18.6	15.6	8.10
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	304.0	256.9	204.8	156.7	130.1	83.2	64.8	53.5	45.6	39.8	32.6	27.7	14.9
1.80V/cell	357.4	295.1	232.8	176.5	144.0	89.9	69.3	56.7	48.8	42.6	34.6	29.7	15.3
1.75V/cell	393.2	320.6	246.0	185.1	151.6	93.9	71.6	58.4	49.8	43.6	35.1	30.0	15.5
1.70V/cell	418.2	337.8	257.6	193.3	157.6	98.2	73.9	60.0	51.0	44.5	35.6	30.1	15.8
1.67V/cell	436.1	352.1	267.3	197.5	162.1	100.3	76.3	61.6	52.0	45.3	36.0	30.4	15.9
1.60V/cell	462.4	373.9	281.7	207.5	169.0	103.5	78.6	62.8	52.9	46.1	36.4	30.8	16.0

# LPGS SERIES-HYBRID GEL BATTERY

## LPGS12-150 (12V150Ah)



### APPLICATIONS

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

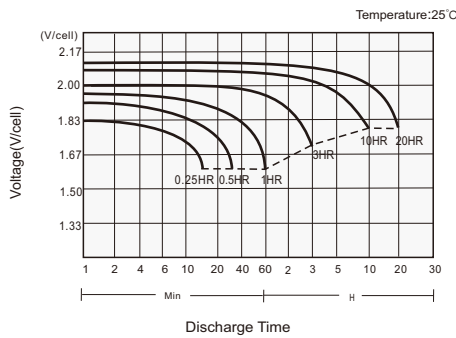
### GENERAL FEATURES

- 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

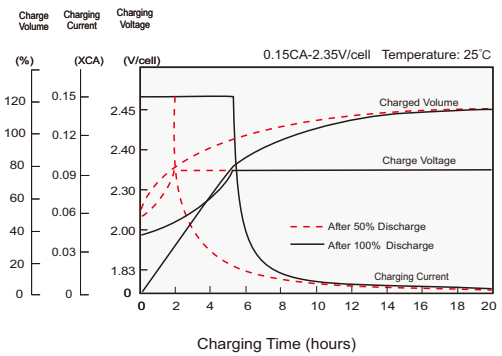
### STANDARDS

- 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

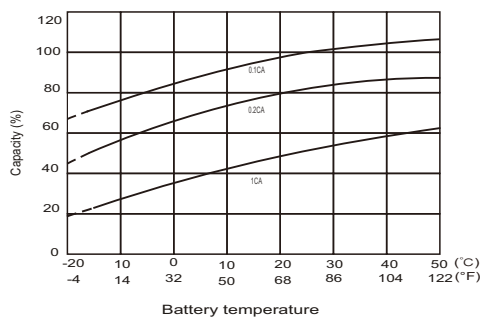
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

