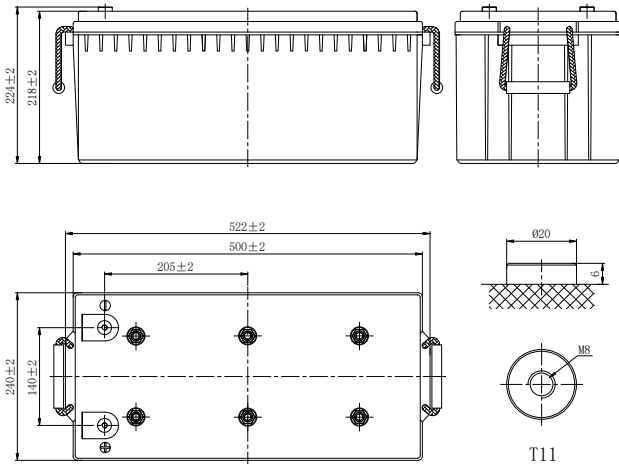


# LPGS SERIES-HYBRID GEL BATTERY

## LPGS12-200 (12V200Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>10</sub> : 1.80V/cell	200Ah
Dimension	Length	522mm (20.6inches)
	Width	240mm (9.45inches)
	Container Height	218mm (8.58inches)
	Total Height	224mm (8.82inches)
Approx Weight	60.3kg (132.9lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3600A	
Internal Resistance (25°C)	Approx 3.2 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	215.6	180.3	142.5	108.2	89.5	56.9	44.2	36.4	30.9	26.9	21.9	18.6	10.0
1.80V/cell	256.7	210.0	164.0	122.8	99.6	61.9	47.5	38.7	33.2	28.9	23.4	20.0	10.3
1.75V/cell	286.1	230.6	174.8	129.9	105.4	64.8	49.2	40.0	34.0	29.7	23.8	20.2	10.4
1.70V/cell	309.1	245.2	184.4	136.4	110.0	68.0	50.9	41.2	34.9	30.3	24.1	20.3	10.6
1.67V/cell	325.5	258.0	193.1	140.5	113.9	69.9	52.8	42.4	35.7	31.0	24.5	20.5	10.7
1.60V/cell	350.9	277.1	205.2	148.5	119.4	72.5	54.7	43.4	36.4	31.6	24.8	20.8	10.8
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	405.4	342.5	273.0	209.0	173.5	110.9	86.5	71.3	60.7	53.1	43.4	36.9	19.9
1.80V/cell	476.5	393.4	310.4	235.3	192.0	119.9	92.4	75.6	65.0	56.8	46.1	39.7	20.5
1.75V/cell	524.3	427.5	328.0	246.8	202.1	125.2	95.5	77.9	66.4	58.2	46.8	40.0	20.6
1.70V/cell	557.6	450.4	343.5	257.7	210.1	130.9	98.5	80.0	68.0	59.3	47.4	40.2	21.0
1.67V/cell	581.5	469.4	356.5	263.3	216.1	133.7	101.7	82.1	69.4	60.4	48.0	40.5	21.2
1.60V/cell	616.6	498.6	375.7	276.6	225.4	138.0	104.8	83.7	70.5	61.5	48.5	41.1	21.3

# LPGS SERIES-HYBRID GEL BATTERY

## LPGS12-200 (12V200Ah)



### APPLICATIONS

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

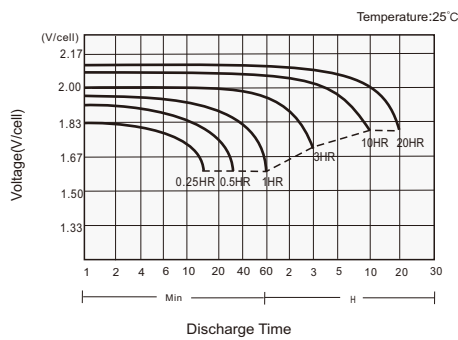
### GENERAL FEATURES

- 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

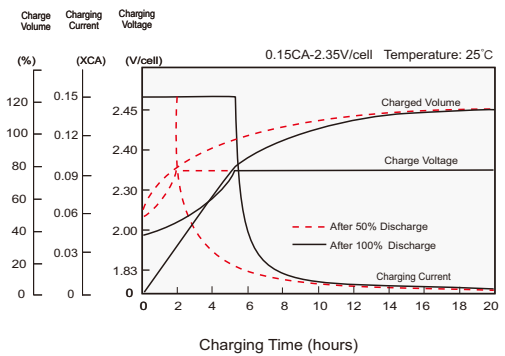
### STANDARDS

- 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

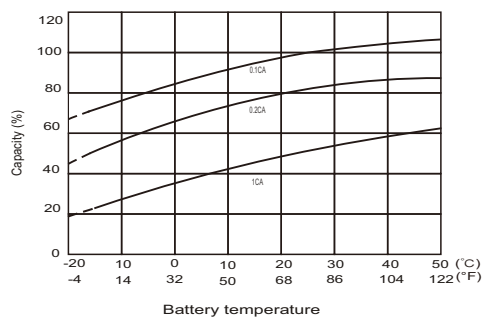
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

