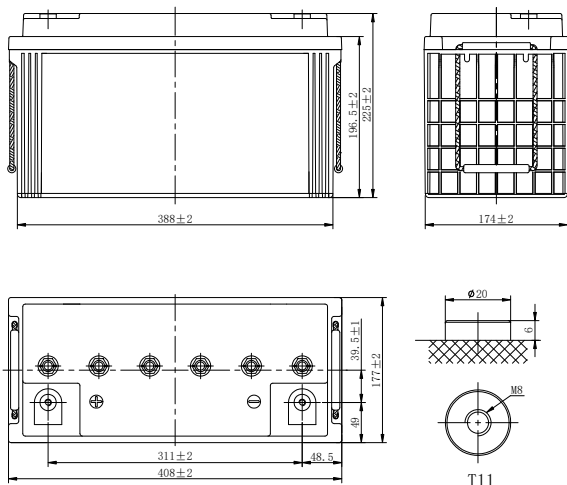


# LPGS SERIES-HYBRID GEL BATTERY

## LPGS12-120 (12V120Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>10</sub> : 1.80V/cell	120Ah
Dimension	Length	408mm (16.1inches)
	Width	177mm (6.97inches)
	Container Height	225mm (8.86inches)
	Total Height	225mm (8.86inches)
Approx Weight	34.78kg (76.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2400A	
Internal Resistance (25°C)	Approx 4 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	129.3	108.2	85.5	64.9	53.7	34.2	26.5	21.8	18.5	16.1	13.1	11.1	6.00
1.80V/cell	154.0	126.0	98.4	73.7	59.8	37.1	28.5	23.2	19.9	17.3	14.0	12.0	6.18
1.75V/cell	171.7	138.4	104.9	77.9	63.2	38.9	29.5	24.0	20.4	17.8	14.3	12.1	6.24
1.70V/cell	185.5	147.1	110.6	81.8	66.0	40.8	30.6	24.7	21.0	18.2	14.4	12.2	6.36
1.67V/cell	195.3	154.8	115.9	84.3	68.3	41.9	31.7	25.5	21.4	18.6	14.7	12.3	6.42
1.60V/cell	210.6	166.2	123.1	89.1	71.6	43.5	32.8	26.0	21.8	19.0	14.9	12.5	6.48
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	243.2	205.5	163.8	125.4	104.1	66.5	51.9	42.8	36.4	31.9	26.0	22.1	11.9
1.80V/cell	285.9	236.1	186.2	141.2	115.2	71.9	55.5	45.3	39.0	34.1	27.7	23.8	12.3
1.75V/cell	314.6	256.5	196.8	148.1	121.3	75.1	57.3	46.7	39.9	34.9	28.1	24.0	12.4
1.70V/cell	334.5	270.2	206.1	154.6	126.1	78.5	59.1	48.0	40.8	35.6	28.4	24.1	12.6
1.67V/cell	348.9	281.6	213.9	158.0	129.7	80.2	61.0	49.2	41.6	36.2	28.8	24.3	12.7
1.60V/cell	369.9	299.2	225.4	166.0	135.2	82.8	62.9	50.2	42.3	36.9	29.1	24.7	12.8

# LPGS SERIES-HYBRID GEL BATTERY

## LPGS12-120 (12V120Ah)



### APPLICATIONS

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

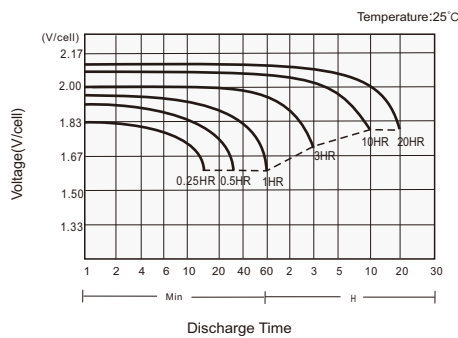
### GENERAL FEATURES

- 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

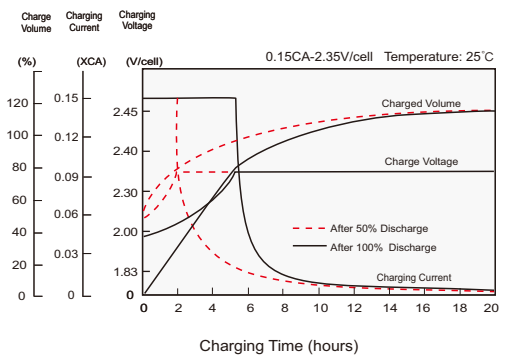
### STANDARDS

- 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

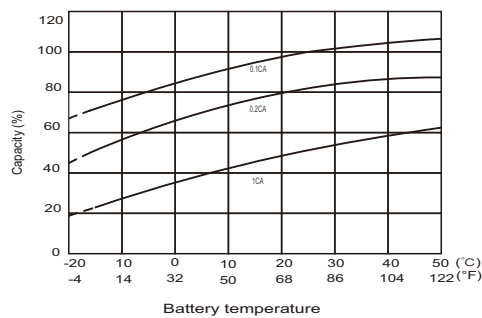
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

