

LPG SERIES-GEL Battery

LPG12-240 (12V240AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	240.0AH	
Dimension	Length	522±3mm (20.55 inches)
	Width	268±2mm (10.55 inches)
	Container Height	220±2mm (8.66 inches)
	Total Height (with Terminal)	226±2mm (8.90 inches)
Approx Weight	Approx 77.5 kg (170.9lbs)	
Terminal	T11	
Container Material	ABS to UL94 HB	
	(Optional UL94-V0 Flame retardant jars available)	
Rated Capacity	240.0 AH/12.0A	(20hr, 1.80V/cell, 25°C/77°F)
	219.0 AH/21.9A	(10hr, 1.75V/cell, 25°C/77°F)
	209.6 AH/26.2A	(8hr, 1.75V/cell, 25°C/77°F)
	167.1 AH/55.7A	(3hr, 1.75V/cell, 25°C/77°F)
	132.0 AH/132.0A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1960A (5s)	
Internal Resistance	Approx 3.0mΩ	
Operating Temp. Range	Discharge : -20~55°C (-4~131°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Standby (Float) Use	No limit on Initial Charging Current Voltage	
	2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 60A. Voltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LPG series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required.	
	For higher temperatures the time interval will be shorter.	



Applications

- ◆ Outside Plant Telecommunications
- ◆ 36 VDC Broadband, CATV pole mounted applications.
- ◆ Wind & Solar power storage systems
- ◆ Engine starting
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Electric Boat Power
- ◆ Wider Temperature Range



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	203.0	159.4	121.6	101.8	64.6	49.2	40.7	35.2	30.4	26.9	24.2	22.2	21.0	11.5
1.80V/cell	232.6	178.1	134.1	112.3	69.8	52.7	43.2	37.0	31.9	28.1	25.4	23.3	21.9	12.0
1.75V/cell	261.4	195.8	145.0	120.2	74.0	55.7	45.2	38.4	33.0	29.1	26.2	24.0	22.3	12.2
1.70V/cell	281.5	209.8	153.9	127.2	78.5	58.0	46.7	39.6	34.2	30.1	27.0	24.6	22.8	12.4
1.67V/cell	293.0	217.9	159.4	132.0	80.5	59.8	47.9	40.4	34.7	30.5	27.4	25.0	23.1	12.5
1.60V/cell	317.5	233.3	171.2	140.2	83.8	62.2	49.7	41.7	35.6	31.2	27.9	25.5	23.6	12.7

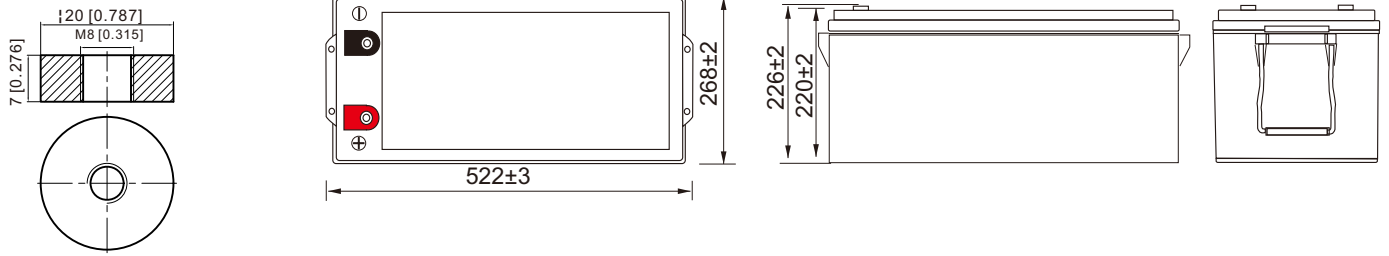
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	388.6	307.1	235.8	198.1	126.2	96.4	80.1	69.5	60.1	53.4	48.2	44.1	41.8	23.0
1.80V/cell	439.3	340.0	258.1	217.6	135.9	102.9	84.6	72.7	62.9	55.7	50.4	46.3	43.6	23.9
1.75V/cell	488.2	370.5	277.0	231.7	143.6	108.5	88.4	75.3	65.0	57.5	51.9	47.6	44.4	24.4
1.70V/cell	520.2	393.3	292.0	243.8	151.5	112.6	91.0	77.4	67.1	59.3	53.4	48.9	45.4	24.7
1.67V/cell	535.4	404.4	300.3	251.5	154.6	115.7	93.0	78.8	68.0	60.0	54.1	49.4	45.8	24.9
1.60V/cell	573.8	428.8	320.1	265.6	160.1	119.8	96.2	81.0	69.4	61.2	54.9	50.3	46.7	25.2

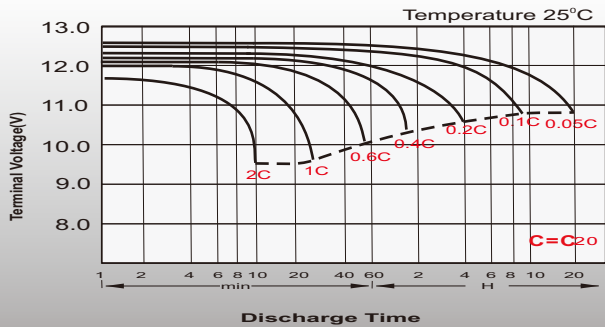
Dimensions

T11 Terminal

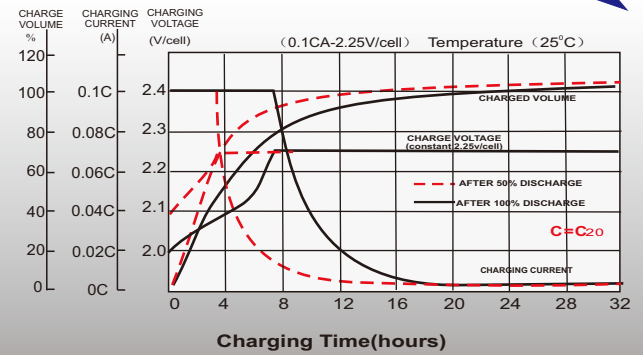
Unit: mm [inches]



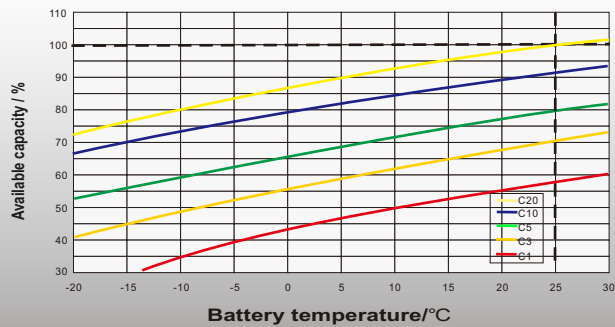
Discharge Characteristics



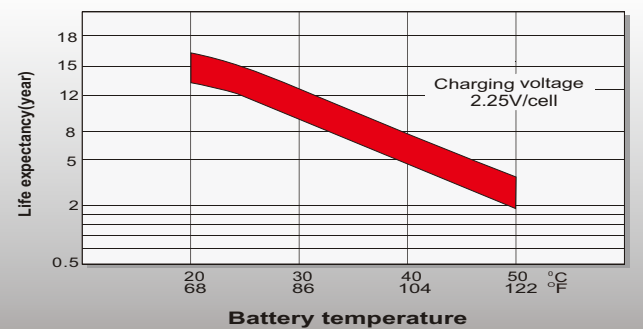
Float Charging Characteristics



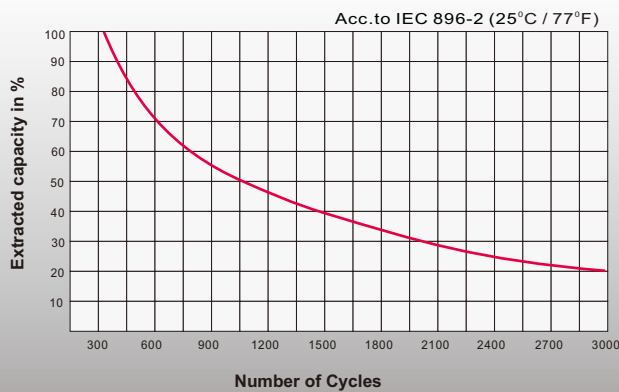
Temperature Effects in Relation to Battery Capacity



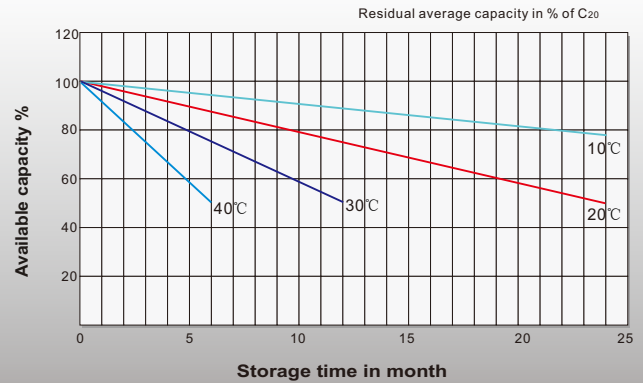
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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