

LPG SERIES-GEL Battery

LPG12-70H (12V70AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	70.0AH	
Dimension	Length	259±3mm (10.2 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±3mm (8.19 inches)
	Total Height (with Terminal)	214±3mm (8.43 inches)
Approx Weight	Approx 23.0 kg (50.7 lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	70.0 AH/3.50A	(20hr, 1.80V/cell, 25°C/77°F)
	65.0 AH/6.50A	(10hr, 1.75V/cell, 25°C/77°F)
	56.0 AH/11.2A	(5hr, 1.75V/cell, 25°C/77°F)
	48.6 AH/16.2A	(3hr, 1.75V/cell, 25°C/77°F)
	38.5 AH/38.5A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	700A (5s)	
Internal Resistance	Approx 7.9mΩ	
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)	
Cycle Use	Initial Charging Current less than 17.5A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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

- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats



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	59.2	46.5	35.5	29.7	18.8	14.4	11.9	10.3	8.86	7.84	7.07	6.46	6.11	3.36
1.80V/cell	67.8	51.9	39.1	32.8	20.4	15.4	12.6	10.8	9.30	8.21	7.41	6.80	6.38	3.50
1.75V/cell	76.2	57.1	42.3	35.1	21.6	16.2	13.2	11.2	9.63	8.50	7.65	7.00	6.50	3.57
1.70V/cell	82.1	61.2	44.9	37.1	22.9	16.9	13.6	11.6	9.96	8.78	7.88	7.19	6.66	3.62
1.67V/cell	85.5	63.6	46.5	38.5	23.5	17.5	14.0	11.8	10.1	8.91	8.00	7.28	6.74	3.65
1.60V/cell	92.6	68.0	49.9	40.9	24.4	18.2	14.5	12.2	10.4	9.10	8.14	7.44	6.87	3.70

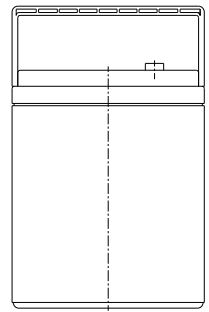
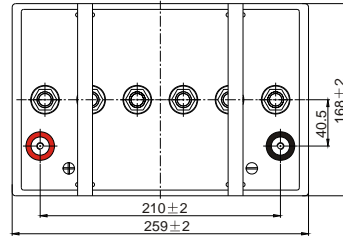
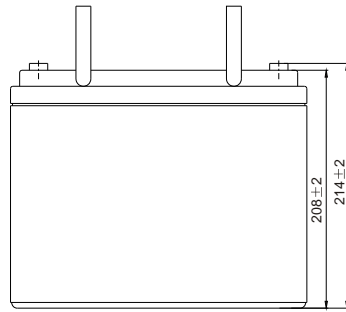
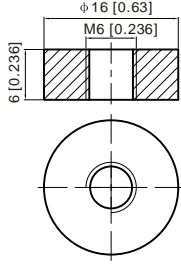
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	113.3	89.6	68.8	57.8	36.8	28.1	23.4	20.3	17.5	15.6	14.1	12.9	12.2	6.71
1.80V/cell	128.1	99.2	75.3	63.5	39.6	30.0	24.7	21.2	18.4	16.2	14.7	13.5	12.7	6.98
1.75V/cell	142.4	108.0	80.8	67.6	41.9	31.6	25.8	22.0	19.0	16.8	15.1	13.9	12.9	7.11
1.70V/cell	151.7	114.7	85.2	71.1	44.2	32.9	26.6	22.6	19.6	17.3	15.6	14.3	13.2	7.19
1.67V/cell	156.2	117.9	87.6	73.3	45.1	33.8	27.1	23.0	19.8	17.5	15.8	14.4	13.4	7.25
1.60V/cell	167.3	125.1	93.4	77.5	46.7	34.9	28.1	23.6	20.2	17.8	16.0	14.7	13.6	7.35

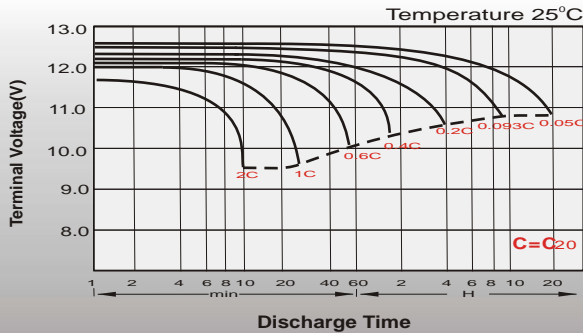
Dimensions

T6 Terminal

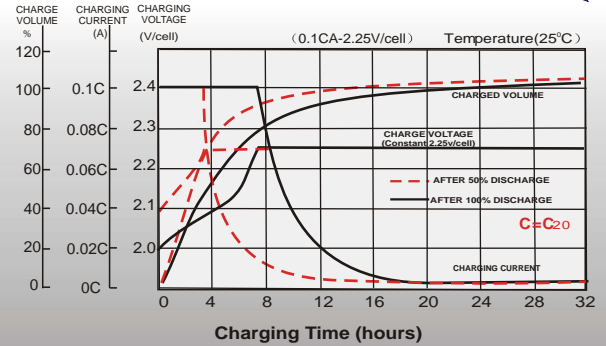
Unit: mm [inches]



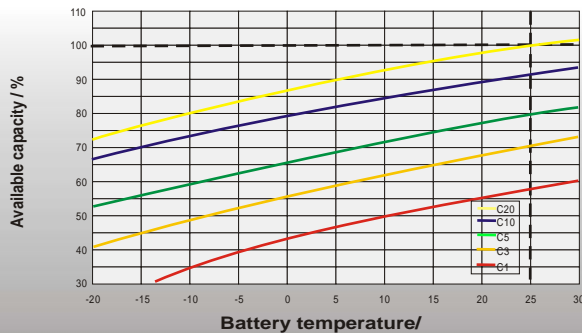
Discharge Characteristics



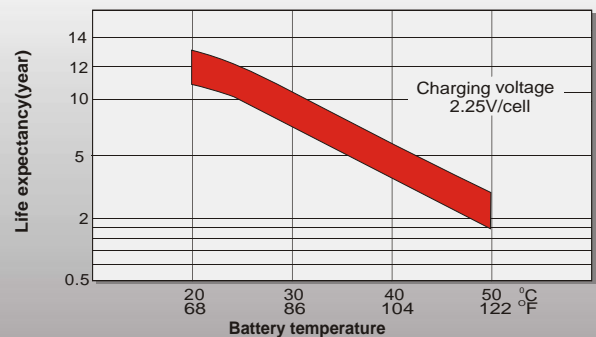
Float Charging Characteristics



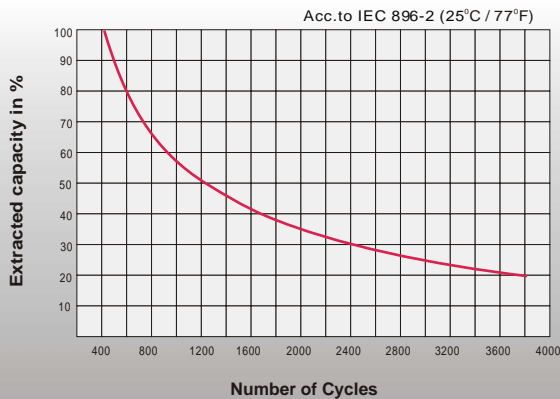
Temperature Effects in Relation to Battery Capacity



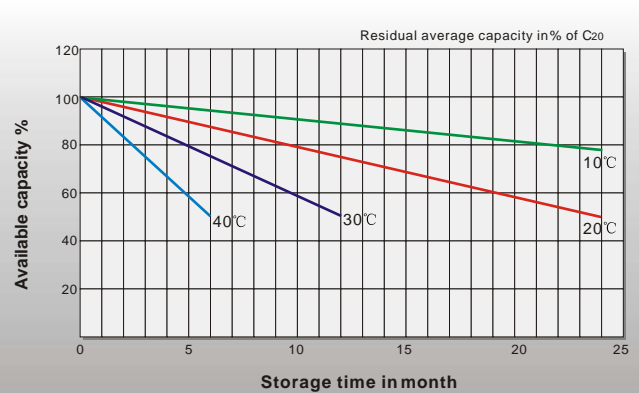
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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