LPG SERIES-GEL Battery

LPG2-450 (2V450AH)

Specification

Nomial Voltage	2V	
Nomial Capacity(10HR)	450.0AH	
Dimension	Length	223±2mm (8.78 inches)
	Width	187±2mm (7.36 inches)
	Container Height	360±2mm (14.17 inches)
	Total Height (with Terminal)	371±2mm (14.61 inches)
Approx Weight	Approx 31.5 kg (69.46lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	480.0 AH/24.0A	(20hr,1.80V/cell,25°C/77°F)
	450.0 AH/45.00A	(10hr,1.75V/cell,25°C/77°F)
	387.0 AH/77.4A	(5hr,1.75V/cell,25°C/77°F)
	336.6 AH/112.2A	(3hr,1.75V/cell,25°C/77°F)
	307.8 AH/307.8A	(1hr,1.67V/cell,25°C/77°F)
Max. Discharge Current	3150A (5s)	
Internal Resistance	Approx 0.75mΩ	
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 112.5A.Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°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 batterys 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*
- *Engine starting*
- *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	391.5	307.8	234.6	203.9	130.1	99.2	82.1	70.9	61.2	54.2	48.9	44.7	42.3	23.04
1.80V/cell	449.6	343.8	259.2	225.0	140.9	106.2	87.1	74.5	64.3	56.7	51.2	47.0	44.1	24.00
1.75V/cell	504.9	378.0	279.6	240.3	149.2	112.2	91.2	77.4	66.5	58.8	52.9	48.4	45.0	24.48
1.70V/cell	544.1	405.0	297.0	254.7	158.2	116.9	94.2	79.7	68.9	60.7	54.5	49.7	46.1	24.82
1.67V/cell	565.7	421.2	307.8	264.0	162.2	120.6	96.5	81.5	70.0	61.6	55.2	50.4	46.6	25.04
1.60V/cell	612.9	450.0	330.6	280.4	168.8	125.4	100.1	84.0	71.7	62.9	56.3	51.4	47.5	25.40

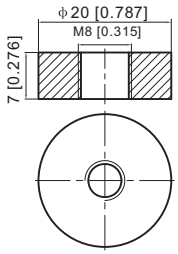
Constant Power Discharge (Watts) at 25 °C (77°F)

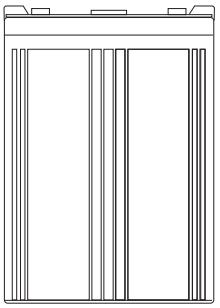
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	743.5	588.5	451.4	393.8	252.2	192.7	160.3	138.9	120.3	106.8	96.5	88.3	83.6	45.6
1.80V/cell	842.5	651.2	494.0	432.5	271.7	205.7	169.3	145.5	125.9	111.4	100.9	92.7	87.2	47.5
1.75V/cell	935.6	708.0	528.2	459.5	287.0	216.9	176.8	150.4	129.9	115.1	103.9	95.3	88.8	48.4
1.70V/cell	997.2	753.3	559.0	485.2	302.9	225.2	182.0	154.6	134.2	118.7	106.8	97.7	90.8	49.0
1.67V/cell	1025.0	772.9	574.0	499.0	309.0	231.4	186.0	157.4	136.0	120.1	108.1	98.8	91.7	49.4
1.60V/cell	1098.3	820.4	613.3	527.1	320.0	239.5	192.3	161.7	138.9	122.3	109.9	100.7	93.4	50.0

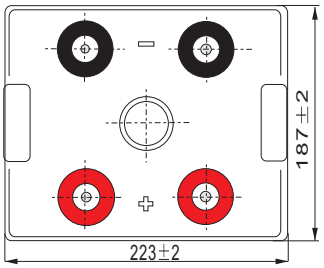
Dimensions

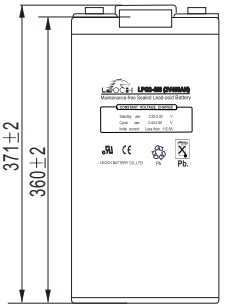
T11 Terminal

Unit: mm [inches]

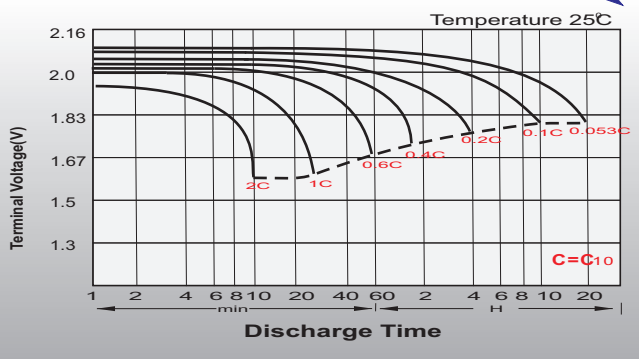




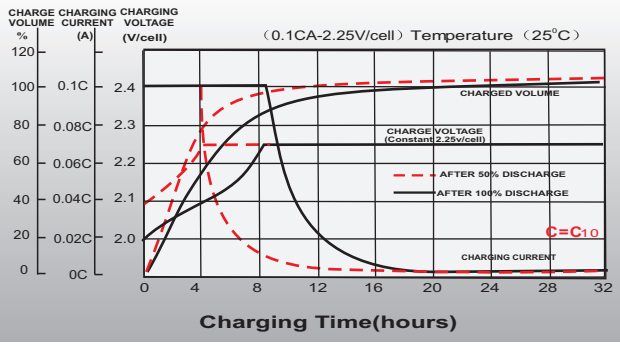




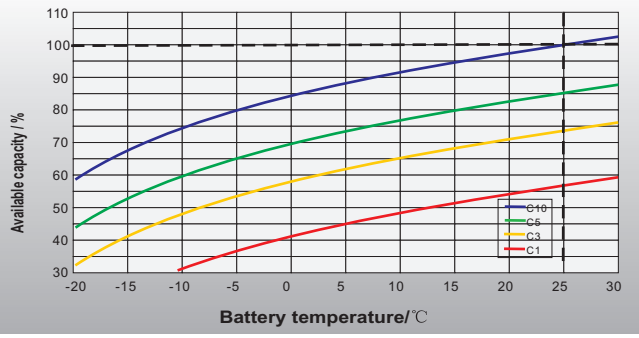
Discharge Characteristics



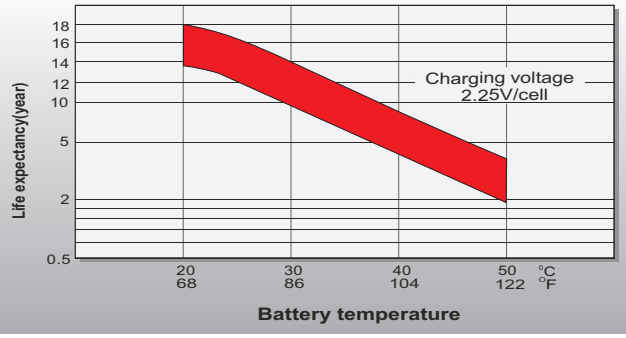
Float Charging Characteristics



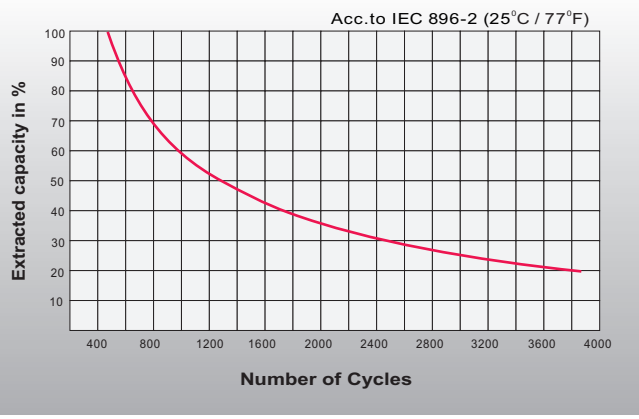
Temperature Effects in Relation to Battery Capacity



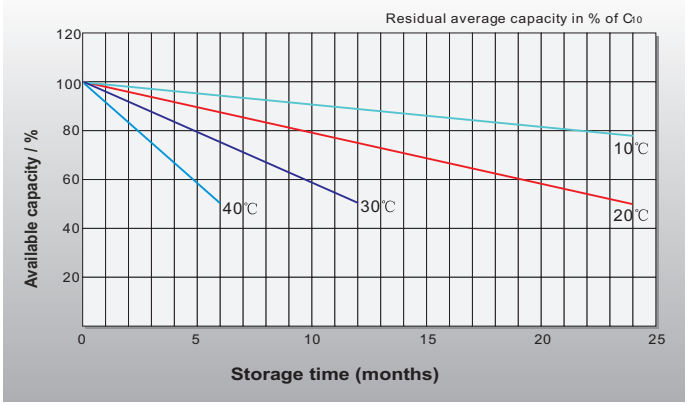
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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