LPG SERIES-GEL Battery

LPG12-24 (12V24AH)

Specification

Nomial Voltage	12V	
Nomial Capacity(20HR)	24.0AH	
Dimension	Length	166.5±1mm (6.56 inches)
	Width	175±1mm (6.89 inches)
	Container Height	125±1mm (4.92 inches)
	Total Height (with Terminal)	125±1mm (4.92 inches)
Approx Weight	Approx 8.5 kg (18.74lbs)	
Terminal	T12	
Container Material	ABS	
Rated Capacity	24.0 AH/1.20A	(20hr,1.80V/cell,25°C/77°F)
	22.3 AH/2.23A	(10hr,1.75V/cell,25°C/77°F)
	19.2 AH/3.84A	(5hr,1.75V/cell,25°C/77°F)
	16.7 AH/5.57A	(3hr,1.75V/cell,25°C/77°F)
	13.2 AH/13.2A	(1hr,1.67V/cell,25°C/77°F)
Max. Discharge Current	288A (5s)	
Internal Resistance	Approx 15.8mΩ	
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 6.0A.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 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*

VdS | Intertek ETL SEMKO MH26866 | CEC ISO14001 | ISO9001 | CE EMC tested

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	20.3	15.9	12.2	10.2	6.46	4.92	4.07	3.52	3.04	2.69	2.42	2.22	2.10	1.15
1.80V/cell	23.3	17.8	13.4	11.2	6.98	5.27	4.32	3.70	3.19	2.81	2.54	2.33	2.19	1.20
1.75V/cell	26.1	19.6	14.5	12.0	7.40	5.57	4.52	3.84	3.30	2.91	2.62	2.40	2.23	1.22
1.70V/cell	28.2	21.0	15.4	12.7	7.85	5.80	4.67	3.96	3.42	3.01	2.70	2.46	2.28	1.24
1.67V/cell	29.3	21.8	15.9	13.2	8.05	5.98	4.79	4.04	3.47	3.05	2.74	2.50	2.31	1.25
1.60V/cell	31.8	23.3	17.1	14.0	8.38	6.22	4.97	4.17	3.56	3.12	2.79	2.55	2.36	1.27

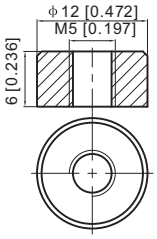
Constant Power Discharge (Watts) at 25 °C (77°F)

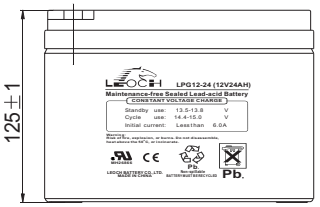
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	38.9	30.7	23.6	19.8	12.6	9.64	8.01	6.95	6.01	5.34	4.82	4.41	4.18	2.30
1.80V/cell	43.9	34.0	25.8	21.8	13.6	10.3	8.46	7.27	6.29	5.57	5.04	4.63	4.36	2.39
1.75V/cell	48.8	37.0	27.7	23.2	14.4	10.8	8.84	7.53	6.50	5.75	5.19	4.76	4.44	2.44
1.70V/cell	52.0	39.3	29.2	24.4	15.1	11.3	9.10	7.74	6.71	5.93	5.34	4.89	4.54	2.47
1.67V/cell	53.5	40.4	30.0	25.1	15.5	11.6	9.30	7.88	6.80	6.00	5.41	4.94	4.58	2.49
1.60V/cell	57.4	42.9	32.0	26.6	16.0	12.0	9.62	8.10	6.94	6.12	5.49	5.03	4.67	2.52

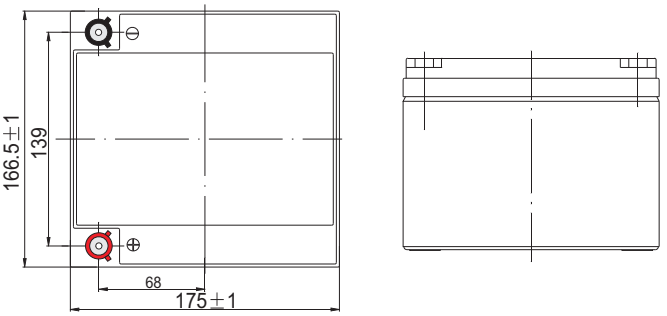
Dimensions

T12 Terminal

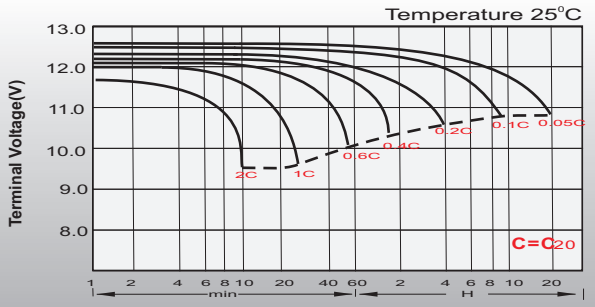
Unit: mm [inches]



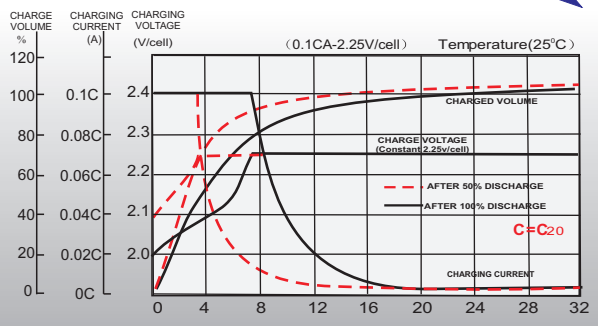




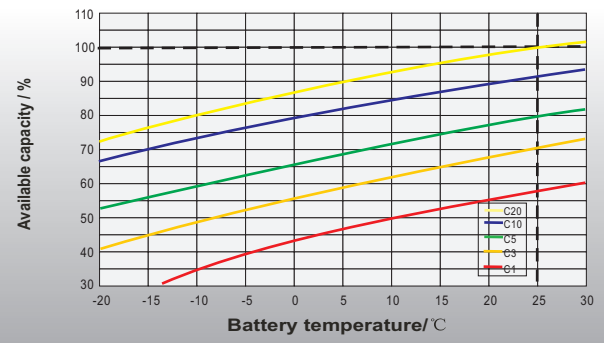
Discharge Characteristics



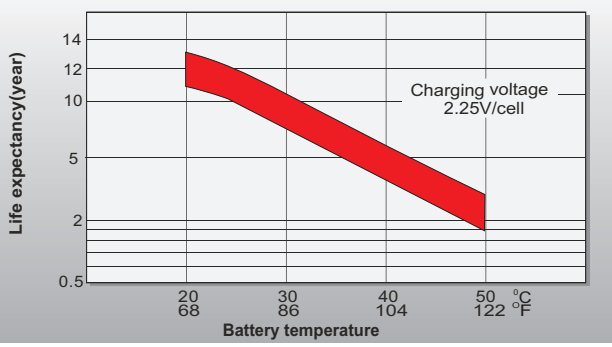
Float Charging Characteristics



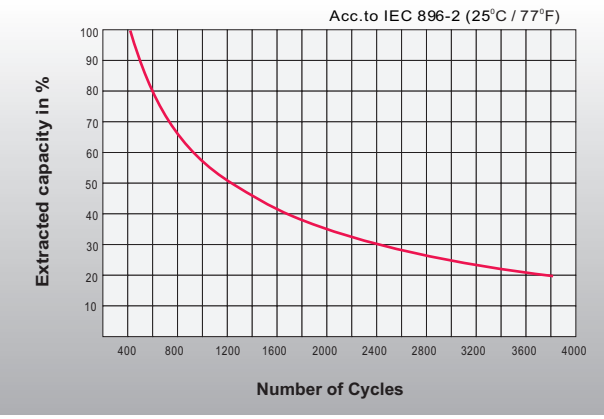
Temperature Effects in Relation to Battery Capacity



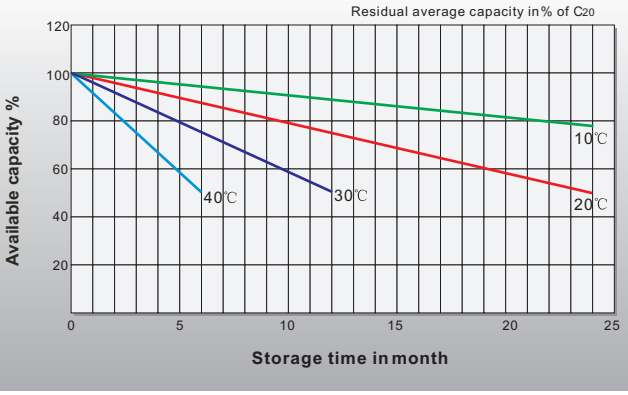
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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