



LP SERIES - GENERAL PURPOSE
CBAT7AH

Specs.



Nominal Voltage	12V
Nominal capacity (20HR)	7.0 AH
Dimensions	Length 151 ± 2 mm
	Broad 65 ± 1 mm
	Height 95 ± 1 mm
	Total Height 100 ± 1 mm (con terminal)
Nominal Capacity	7.00 AH/.350A (20HR, 1.80V/cell, 25°C/77°F)
	6.53AH/0.653A (10 Hrs, 1.80V/cell, 25°C/77°F)
	5.80AH/1.16A (5Hrs, 1.75V/cell,25°C/77°F) y De uso múltiple
	5.13 AH/1.71A (3Hrs, 1.75V/cel, 25°C/77°)
Max. discharge current	4.26 AH/4.36A (1Hr, 1.60V/cell,25°c/77°F)
	105A (5s)
Internal Resistance	Aprox 28mΩ
	Discharge: -15~50°C (5°~122°F)
Operating temperature range	Charge: 0~40°C (32~104°F)
	Storage: -15~40°C (5~104°F)
Nominal temperature range in operation	25± 3°C (77± 5°F)
	Usage cycle
Standby mode	Initial charging current less than 2.1 A volts.
	14.5V~15.0V a 25°C (77°F)
	Temperature coefficient -30mV/°C
	No limit on current voltage
Capacity affected by temperature	initial load
	13.5V~13.8V a 25°C(77°F)
	Temperature coefficient -20mV/°C
	40°C (104°F) 103%
Auto-download	25°C (77°F) 100%
	0°C (32°F) 86%
The Leoch LP series batteries are	
They can be stored for up to 6 months at 25 C (77 ° F) and then a charge is required renewal.	
For higher temperatures, the range the time will be shorter.	

Applications.

- Power supply
- uninterruptible (UPS)
- Electrical power system (EPS)
- Backup power supply
- emergency
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system.
- Electronic devices and equipment
- Power supply of
- communication
- DC power supply
- Automatic control system



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Constant current discharge (Amperes) at 25 °C (77 ° F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371

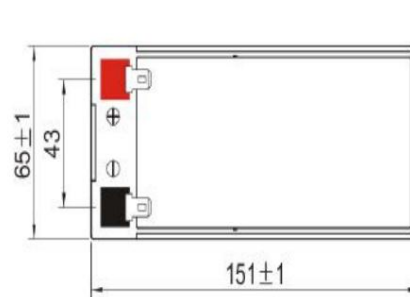
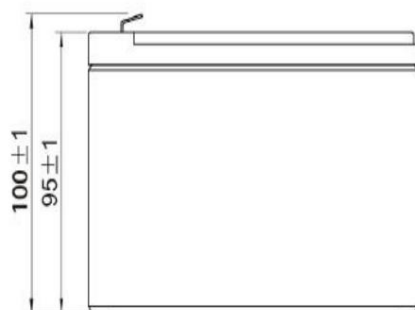
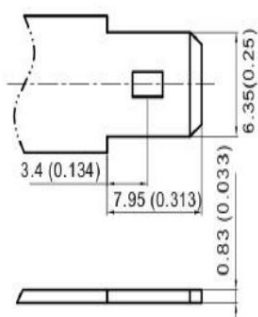
Constant energy discharge (Watts/Cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728

Dimensions

T2 Terminal

Unit: mm [inches]

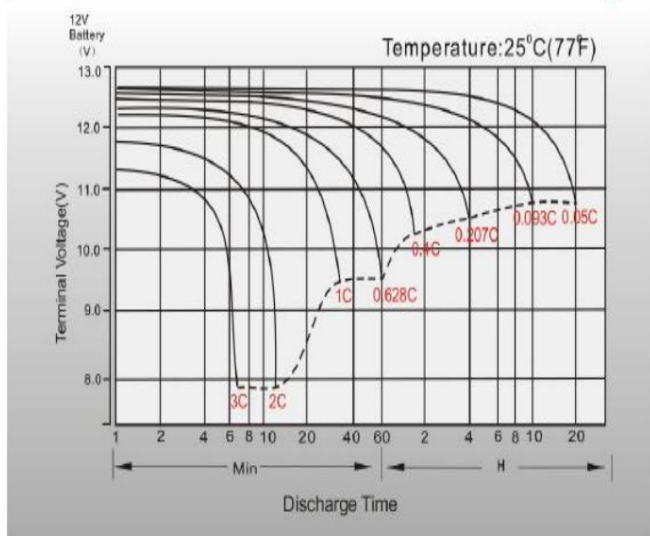




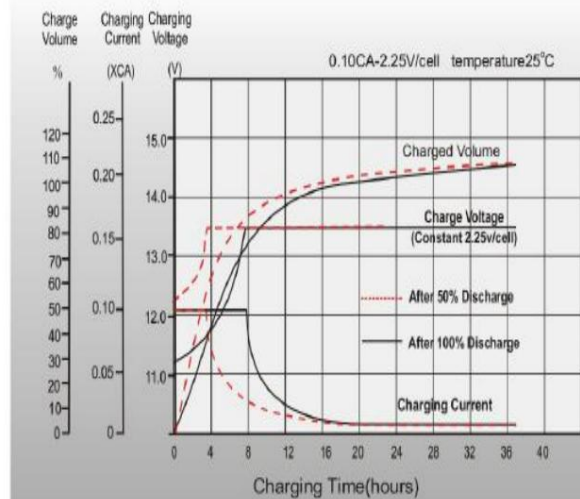
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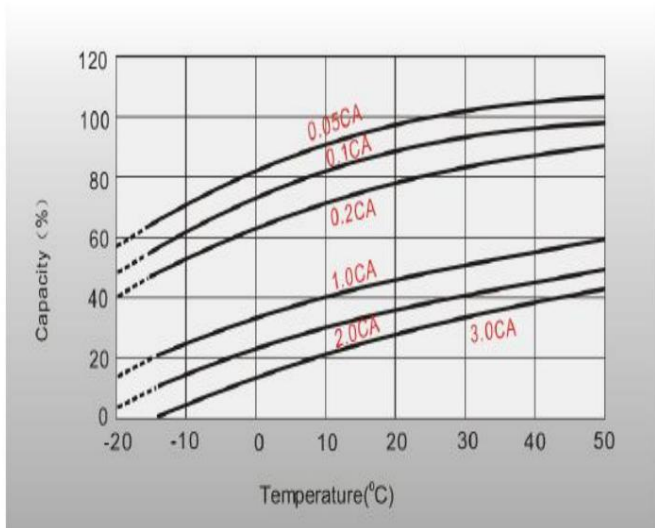
Download features



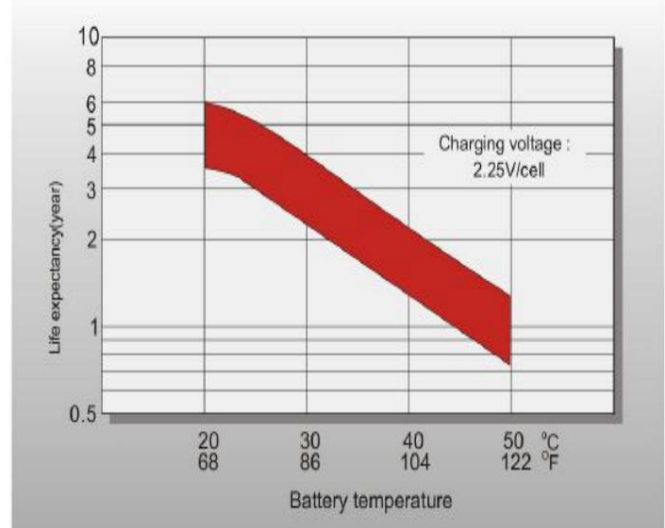
Floating load characteristics



Effects of temperature on battery capacity



Effect of temperature on long-term service life.

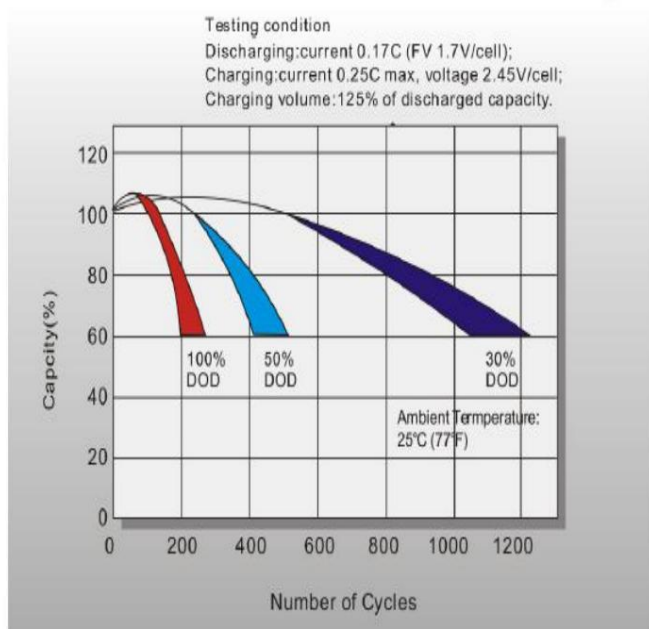




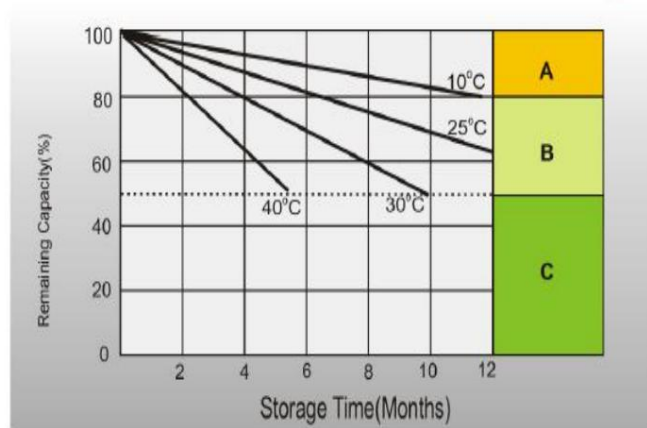
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Life cycle in relation to the discharge depth



Auto-download features



A

No additional charge is required

(Perform an additional charge before use if 100% capacity is required.)

B

An additional charge is required before use. Optional charging method as follows:

- 1.- Charged for more than 3 days with a limited current of 0.25CA and a constant voltage of 2.25V / cell.
- 2.- Charged for more than 20 hours at limited current 0.25CA and constant voltage 2.45V / cell.
- 3.- Charged for 8-10 hours at a limited current of 0.05CA

C

The additional load can often fail to restore capacity.

The battery should never be left on permanently until it reaches this level.