

BTL 2-800 (2V800Ah)

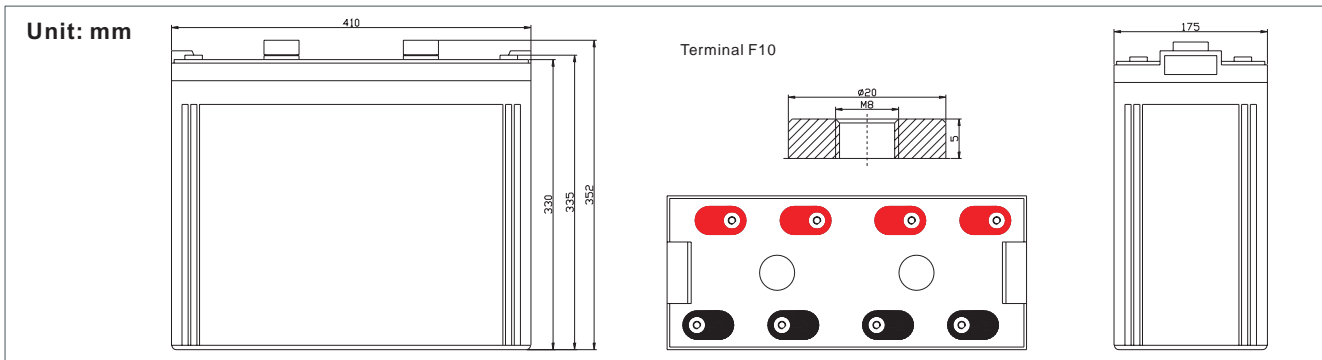


BTL 2-800 is a general purpose battery with 10~15 years expected life under normal float charge, As with all EFFEKTA batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	800Ah @ 10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 57Kg
Max. Discharge Current	4000A(5sec)
Internal Resistance	Approx. 0.6mΩ
Operating Temperature Range	Discharge: -20°C~50°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	2.25 to 2.30 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	200A
Equalization and Cycle Service	2.40 to 2.45 VDC/unit Average at 25°C
Self Discharge	EFFEKTA batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Thread insert & Bolt (F10)
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.

Dimensions



Constant Current Discharge Characteristics Unit: A(25°C)

F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	2171	1688	876	555	334	253	165	85.2	71.6	37.4
1.65V	1930	1560	852	547	326	245	157	84.8	71.6	37.4
1.70V	1769	1447	812	523	318	233	149	84.4	71.6	36.2
1.75V	1628	1339	788	511	304	220	148	84.0	70.8	36.2
1.80V	1439	1222	760	482	293	218	144	80.4	68.3	36.2
1.85V	1061	949	619	398	265	201	132	76.0	65.1	35.4

Constant Power Discharge Characteristics Unit: W(25°C)

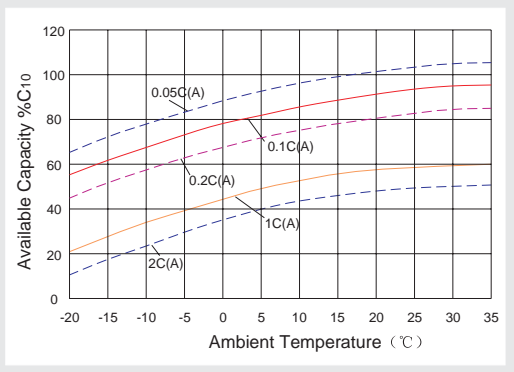
F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	3557	2871	1640	1043	642	461	305	166	140	73.0
1.65V	3292	2699	2767	1023	618	453	298	166	140	73.0
1.70V	3076	2502	1492	990	597	437	293	160	134	72.2
1.75V	2839	2390	1444	966	585	421	286	160	134	72.2
1.80V	2574	2193	1243	838	565	417	281	158	134	72.2
1.85V	1973	1768	1211	778	513	389	257	148	128	68.2

All mentioned values are average values.

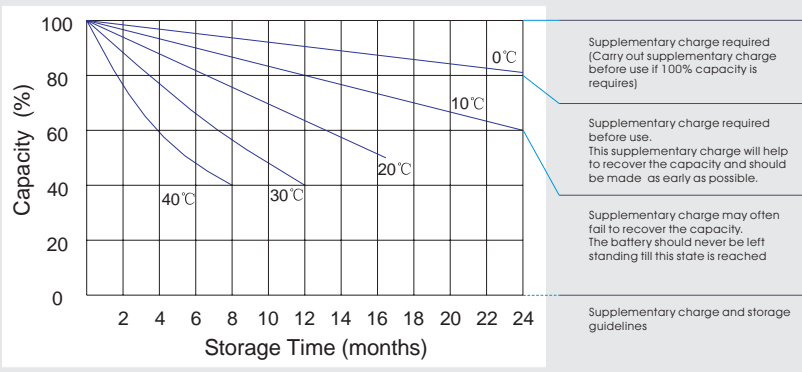
BTL 2-800

2V800Ah

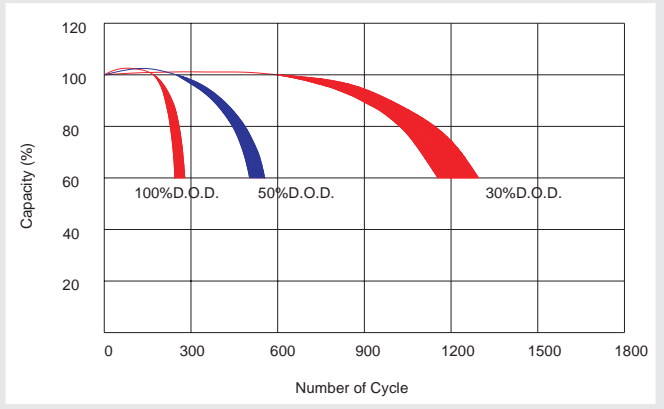
Temperature effects curve



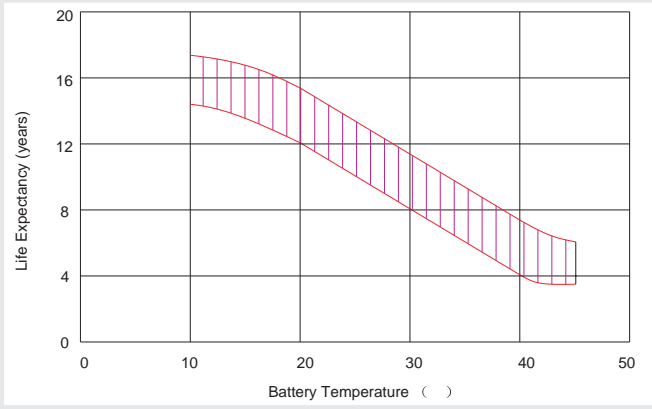
Storage characteristic



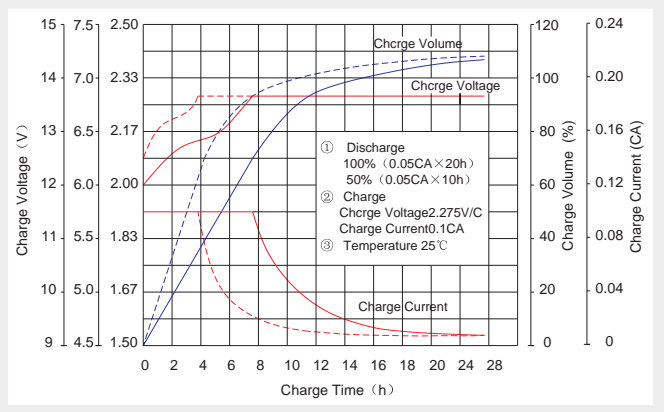
Life characteristics of cyclic use



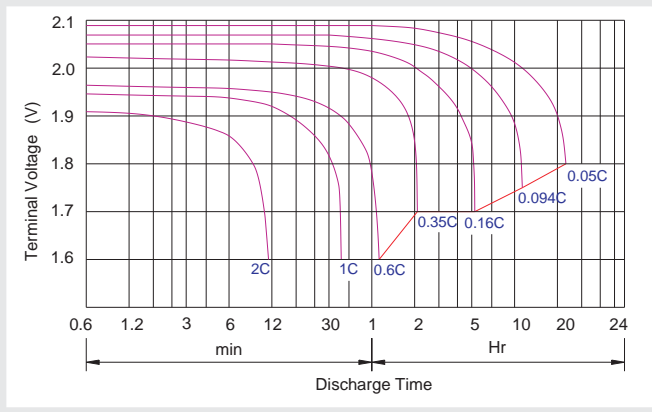
Effect of temperature on long term float life



Charge characteristic Curve for standby use



Discharge characteristic Curve



Charging Procedures(12V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	14.7	14.4~15.0	0.3C
Standby	25°C	13.7	13.6~13.8	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	2.25~2.50V, 5~11h, Max. Current 0.1CA
Constant Current	0.1CA × 5h
Fast	0.3CA × 1.7h

Charging Procedures(2V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	2.275	2.25~2.30	0.3C
Standby	25°C	2.425	2.4~2.45	0.3C