

BTL 2-1000 (2V1000Ah)

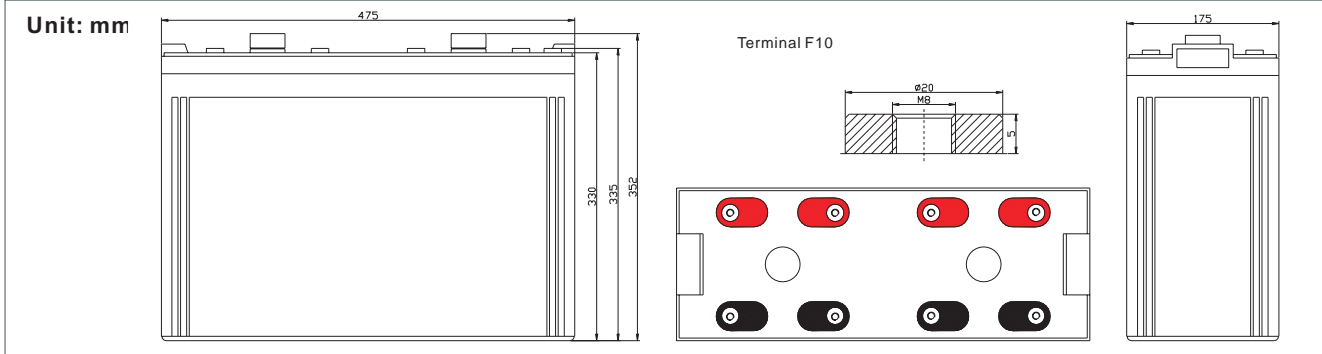


BTL 2-1000 is a general purpose battery with 10~15 years expected life under normal float charge, As with all EFFEKTA batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	1000Ah @ 10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 66.5Kg
Max. Discharge Current	5000A(5sec)
Internal Resistance	Approx. 0.55mΩ
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	250A
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	2714	2111	1095	693	417	317	206	107	89.4	46.7
1.65V	2412	1950	1065	683	407	307	196	106	89.4	46.7
1.70V	2211	1809	1015	653	397	291	186	106	89.4	45.2
1.75V	2035	1673	985	638	379	275	185	105	88.4	45.2
1.80V	1799	1528	950	603	366	272	180	101	85.4	45.2
1.85V	1327	1186	774	497	332	251	165	95.0	81.4	44.2

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

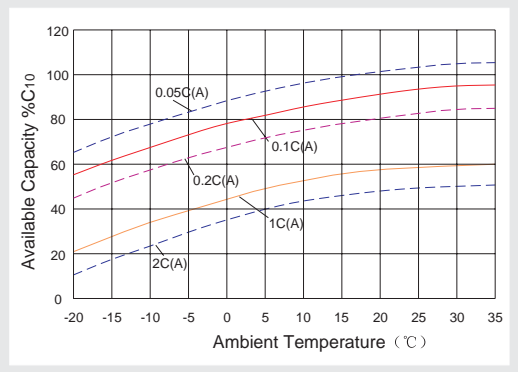
F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	4444	3587	2049	1303	802	576	381	208	175	91.2
1.65V	4113	3372	3457	1278	772	566	373	208	175	91.2
1.70V	3843	3126	1864	1237	746	546	366	200	168	90.2
1.75V	3547	2986	1804	1207	731	526	357	199	168	90.2
1.80V	3216	2740	1553	1047	706	521	351	197	168	90.2
1.85V	2465	2209	1513	972	641	486	321	185	160	85.2

All mentioned values are average values.

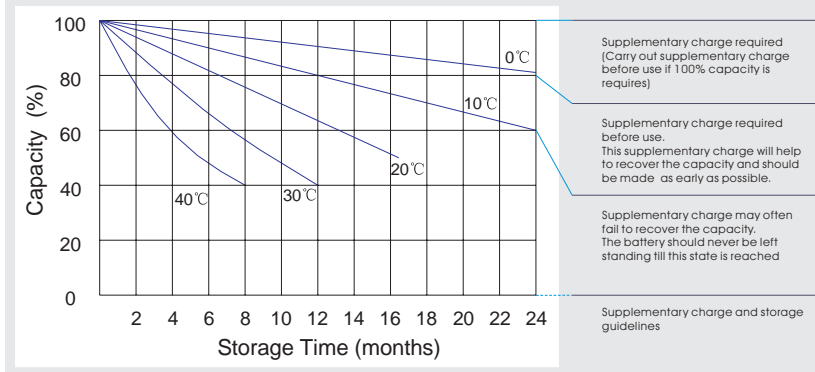
BTL 2-1000

2V1000Ah

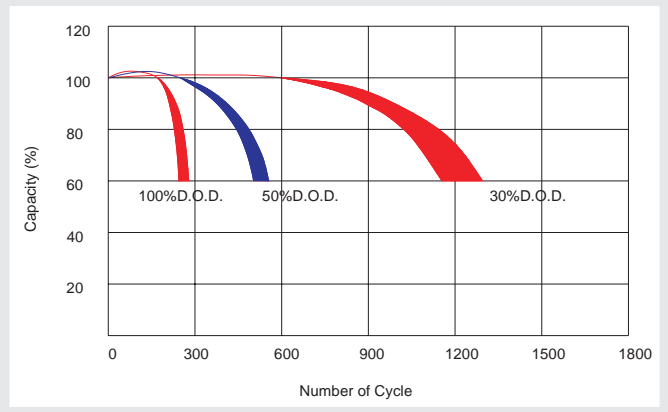
Temperature effects curve



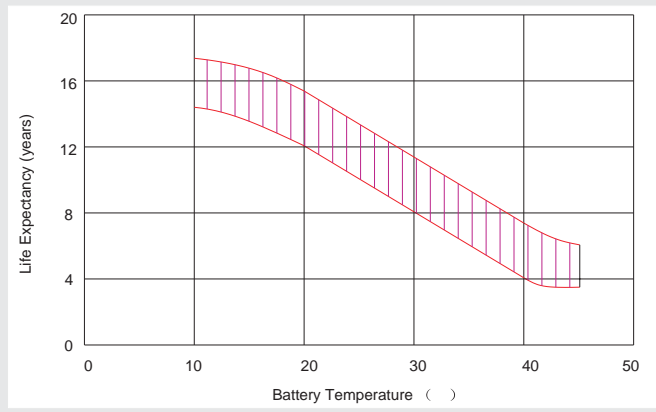
Storage characteristic



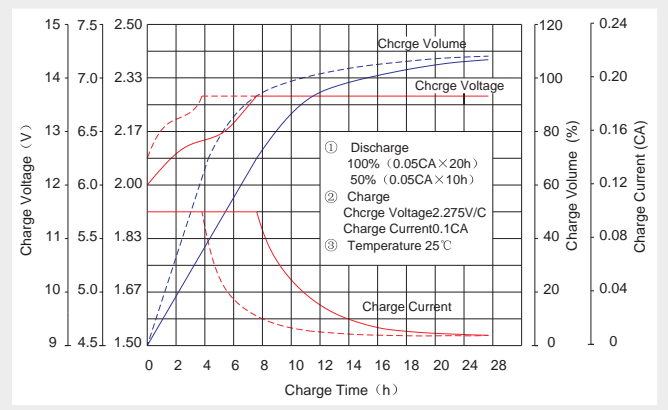
Life characteristics of cyclic use



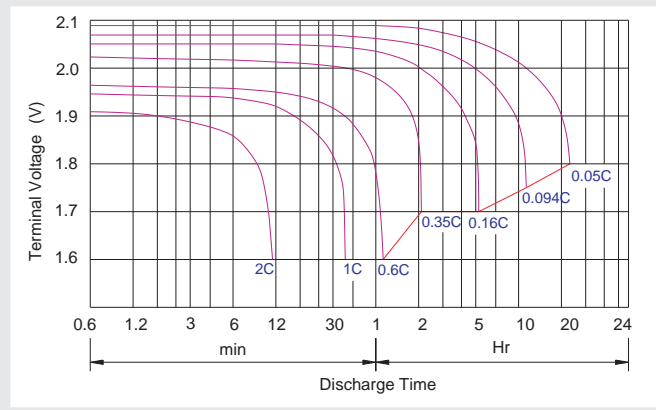
Effect of temperature on long term float life



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