




BTL 2-3000 (2V3000Ah)



BTL 2-3000 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.

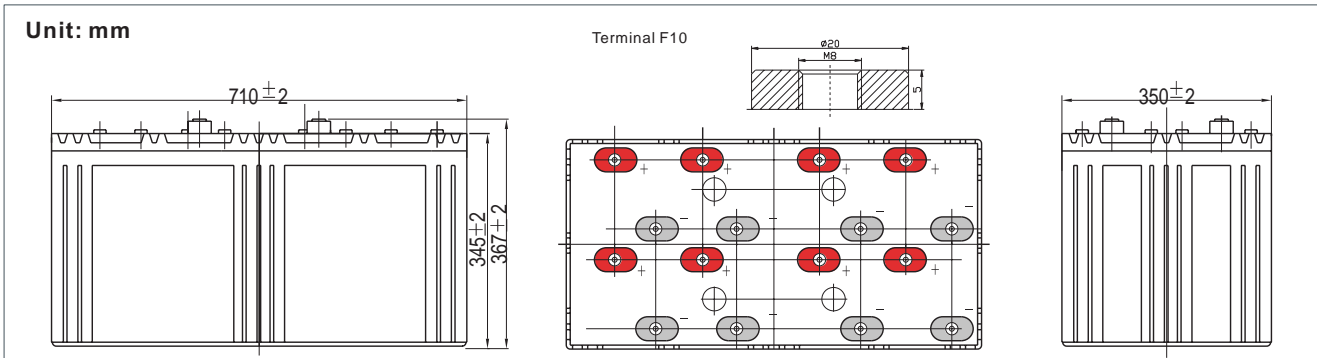
Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	3000Ah @ 10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 204Kg
Max. Discharge Current	5000A(5sec)
Internal Resistance	Approx. 0.45mΩ
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	750A
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 month 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.

ISO9001:2000 Certificate

Dimensions



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

F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	8111	6308	3274	2073	1247	946	616	318	267	140
1.65V	7210	5828	3184	2043	1217	916	586	317	267	140
1.70V	6609	5407	3034	1953	1187	871	556	315	267	135
1.75V	6083	5002	2944	1908	1134	822	553	314	264	135
1.80V	5377	4566	2839	1802	1095	814	539	300	255	135
1.85V	3965	3545	2313	1487	991	751	493	284	243	132

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

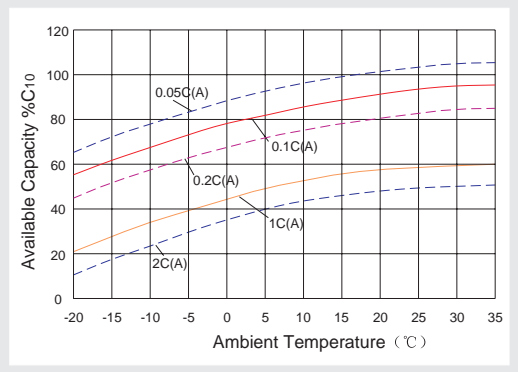
F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	13314	10747	6139	3903	2402	1726	1141	623	525	273
1.65V	12323	10102	10357	3828	2312	1696	1117	623	525	273
1.70V	11513	9366	5584	3707	2236	1636	1096	600	503	270
1.75V	10627	8946	5404	3617	2191	1576	1069	597	503	270
1.80V	9636	8210	4653	3137	2116	1561	1051	591	503	270
1.85V	7385	6619	4533	2912	1921	1456	961	555	480	255

5899 5404 3903 2792 1771 1306 908 525 450 237
All mentioned values are average values.

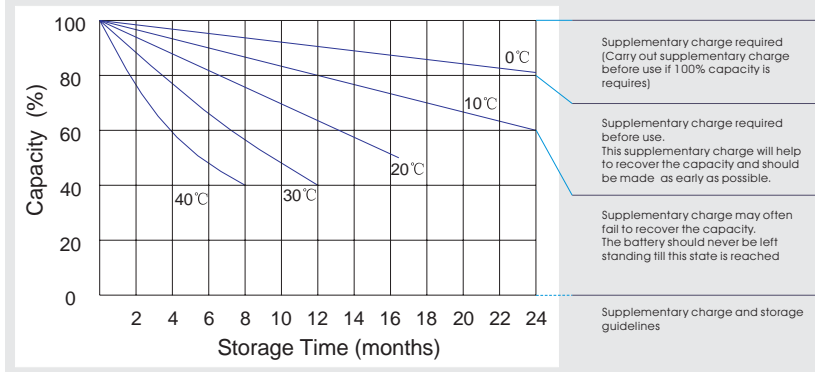
BTL 2-3000

2V3000Ah

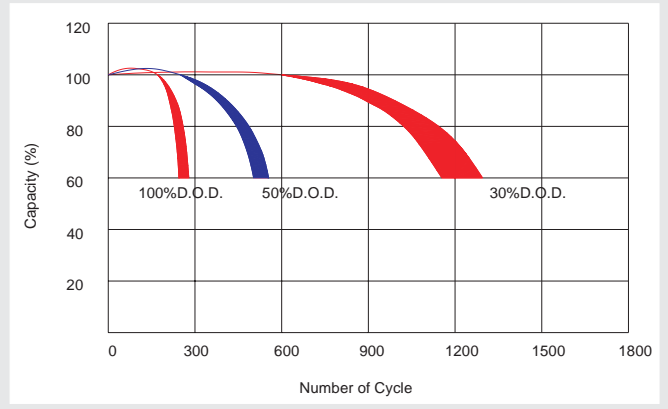
Temperature effects curve



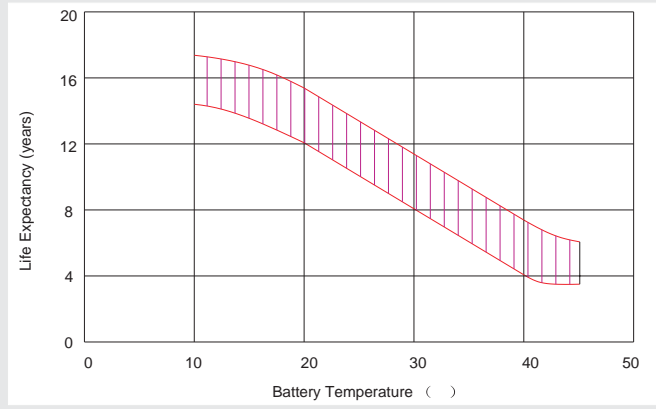
Storage characteristic



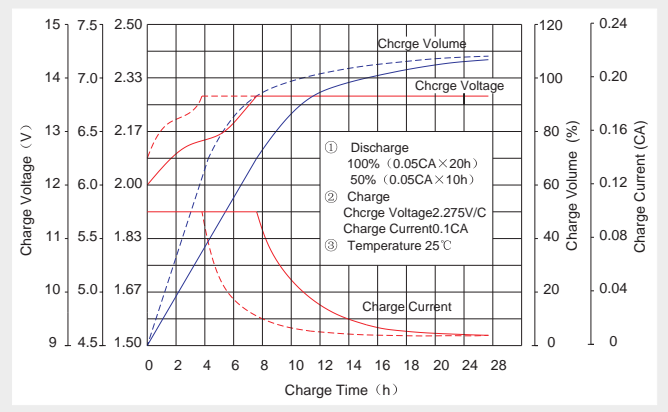
Life characteristics of cyclic use



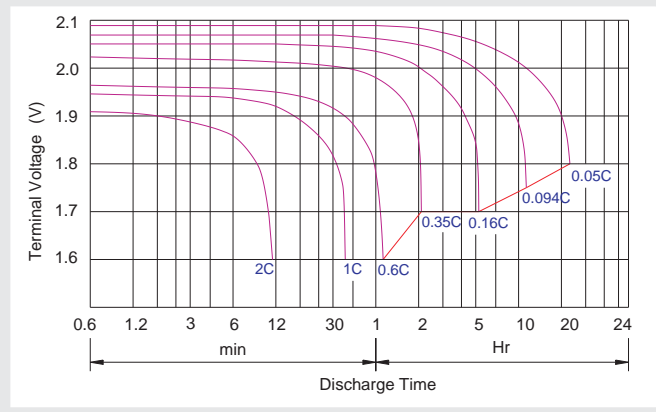
Effect of temperature on long term float life



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