

BTL12-12 (12V/12Ah)

BTL series is a general purpose battery with 10-12 years design life in float service according to Eurobat. It meets with IEC, JIS and BS standards. With updated AGM valve regulated technology and high purity raw materials, the BTL series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS, DC-power systems, emergency light and security system applications.



Specifications		
Nominal Voltage	12V	
Nominal Capacity(10HR)	12.0Ah	
Dimension	Length	151±2mm
	Width	98±1mm
	Container Height	95±1mm
	Height of the terminals	101±2mm
Approx Weight	3.80kg	
Terminal	6.35 mm plug connection	
Container Material	ABS	
Rated Capacity	12.00Ah / 0.600A	(20hr, 1.75V/cell, 25°C/77°F)
	11.60Ah / 1.16A	(10hr, 1.75V/cell, 25°C/77°F)
	10.54Ah / 2.13A	(5hr, 1.75V/cell, 25°C/77°F)
	9.39Ah / 3.13A	(3hr, 1.75V/cell, 25°C/77°F)
	7.89Ah / 7.89A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	180A (5s)	
Internal Resistance	Approx 18.0mΩ	
Operating Temp.Range	Discharge	-15 ~ 40°C
	Charge	0 ~ 40°C
	Storage	-15 ~ 40°C
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 3.6A. 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	EFFEKTA BTL series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.9	18.9	15.9	12.0	8.84	7.23	4.19	3.04	2.46	2.08	1.78	1.40	1.13	0.588
1.80V/cell	25.1	19.7	16.4	12.4	9.02	7.36	4.26	3.08	2.49	2.11	1.80	1.41	1.14	0.595
1.75V/cell	26.3	20.4	16.9	12.6	9.20	7.49	4.32	3.13	2.53	2.13	1.82	1.43	1.16	0.600
1.70V/cell	27.6	21.1	17.4	12.9	9.37	7.62	4.39	3.17	2.56	2.16	1.85	1.45	1.17	0.607
1.65V/cell	28.3	21.6	17.7	13.1	9.48	7.70	4.43	3.20	2.58	2.18	1.86	1.46	1.18	0.610
1.60V/cell	30.0	22.6	18.4	13.5	9.73	7.89	4.52	3.27	2.63	2.22	1.89	1.48	1.20	0.619

Constant Power Discharge (Watts/cell) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	45.7	36.4	30.7	23.3	17.2	14.1	8.21	5.97	4.84	4.10	3.52	2.77	2.24	1.18
1.80V/cell	47.7	37.6	31.5	23.8	17.4	14.3	8.31	6.05	4.90	4.15	3.56	2.80	2.27	1.19
1.75V/cell	49.8	38.8	32.2	24.2	17.7	14.5	8.42	6.12	4.96	4.20	3.60	2.83	2.29	1.20
1.70V/cell	51.8	40.0	33.1	24.7	18.0	14.7	8.53	6.20	5.02	4.25	3.64	2.86	2.32	1.21
1.65V/cell	53.0	40.7	33.5	25.0	18.1	14.8	8.60	6.25	5.05	4.28	3.66	2.88	2.33	1.22
1.60V/cell	55.8	42.2	34.6	25.6	18.5	15.1	8.74	6.35	5.13	4.34	3.72	2.93	2.37	1.24

Dimensions

