

BTL12-60 (12V / 60Ah)

BTL series is a general-purpose battery with 10-12 years design life in float service according to Eurobat. 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	12 V	
Nominal Capacity	60.0Ah	
Dimensions	Length	260 ± 2mm
	Width	169 ± 2mm
	Height	211 ± 2mm
	Total height max.	218 ± 2mm
Approx. Weight	20.5kg	
Terminals	M6 screw terminals	
Container Material	Acrylnitril-Butadien-Styrol (ABS)	
Permitted installation position	Max. 90° to upright normal position (see picture above right)	
Rated Capacity	63.4Ah	20h discharge, 1.80V / cell, 25°C
	60.0Ah	10h discharge, 1.80V / cell, 25°C
	53.6Ah	5h discharge, 1.75V / cell, 25°C
	46.6Ah	3h discharge, 1.75V / cell, 25°C
Max. Discharge Current	600A (5s)	
Internal Resistance	Approx. 6.0mΩ	
Operating temperature range	Discharge	-15 ~ 40°C
	Charge	0 ~ 40°C
	Storage (charged)	-15 ~ 40°C
Recommended operating temperature	Approx. 20°C	
Max. charging current	18A	
Charging voltage	Boost charge	Voltage 14.4 V ~ 15.0V @ 25°C Temperature coefficient -30mV/°C
	Float charging	Voltage 13.5V ~ 13.8V @ 25°C Temperature coefficient -20 mV/°C
Capacity affected by temperature	40°C	104%
	25°C	100%
	0°C	83%
Self-discharge	EFFEKTA BTL series batteries should be recharged at least every 6 months when stored at 25°C. At higher temperatures, the time interval is shortened.	

Discharge at constant current (ampere) at 25°C												
F.V/time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	144.6	108.3	83.94	50.80	30.91	19.28	14.35	11.76	10.02	6.80	5.81	3.03
1.80V/cell	164.3	120.3	91.95	54.80	32.93	20.26	15.01	12.27	10.42	7.03	6.00	3.11
1.75V/cell	180.3	129.8	98.28	57.93	34.50	21.02	15.52	12.65	10.72	7.21	6.15	3.17
1.70V/cell	193.0	137.2	103.2	60.37	35.71	21.59	15.91	12.95	10.95	7.34	6.25	3.22
1.65V/cell	202.9	143.0	107.0	62.19	36.62	22.03	16.20	13.17	11.13	7.44	6.33	3.25
1.60V/cell	210.5	147.4	109.9	63.59	37.31	22.35	16.42	13.33	11.26	7.52	6.40	3.28

Discharge at constant power (watts / cell) at 25°C												
F.V/Zeit	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	272.3	204.5	160.1	98.51	60.50	38.04	28.42	23.35	19.95	13.62	11.68	6.09
1.80V/cell	304.0	223.1	172.9	105.2	64.00	39.76	29.60	24.26	20.67	14.06	12.04	6.25
1.75V/cell	328.0	236.6	182.2	110.1	66.74	41.04	30.48	24.94	21.20	14.38	12.31	6.36
1.70V/cell	344.9	245.8	188.6	113.5	68.72	41.97	31.10	25.42	21.58	14.62	12.51	6.45
1.65V/cell	358.5	253.2	193.9	116.4	70.24	42.68	31.59	25.79	21.88	14.80	12.67	6.52
1.60V/cell	362.4	254.3	195.0	117.2	70.82	43.00	31.82	25.98	22.02	14.91	12.76	6.56

Dimensions

