

BTL12-55L (12V/55Ah)

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		12V
Nominal Capacity		55.0Ah
Dimensions	Length	228 ±3mm
	Width	137 ±2mm
	Height	210 ±3mm
	Height of the terminals	230 ±3mm
Approx. Weight		17.7kg
Terminals		M6 screw terminals, contact surface Ø 16mm
Container Material		Acrylnitril-Butadien-Styrol (ABS)
Permitted installation position		Max. 90° to upright normal position (see picture above right)
Rated Capacity	59.0AH / 2.95A	20h discharge, 1.80 V / cell, 25°C
	55.0AH / 5.50A	10h discharge, 1.80 V / cell, 25°C
	51.0AH / 10.2A	5h discharge, 1.75 V / cell, 25°C
	46.5AH / 15.5A	3h discharge, 1.75 V / cell, 25°C
	35.8AH / 35.8A	1h discharge, 1.60 V / cell, 25°C
Max. Discharge Current		660A (5s)
Internal Resistance		Approx. 7.5mΩ
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		16,5 A
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	103%
	25°C	100%
	0°C	86%
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.0	72.0	56.6	50.6	37.0	31.3	19.1	14.0	11.0	9.54	8.41	6.47	5.36	2.84
1.80V/cell	91.2	81.5	64.0	55.1	39.2	32.5	19.7	15.2	11.7	10.0	9.03	6.80	5.50	2.95
1.75V/cell	102.2	88.3	69.1	56.2	40.6	34.1	20.8	15.5	12.0	10.2	9.10	6.84	5.67	2.97
1.70V/cell	108.9	83.8	73.2	57.3	41.4	34.7	21.2	15.8	12.2	10.4	9.15	6.94	5.72	3.00
1.65V/cell	112.4	96.5	75.2	58.2	42.0	35.3	21.5	15.9	12.3	10.6	9.19	7.04	5.80	3.04
1.60V/cell	116.2	99.5	77.2	59.0	42.6	35.8	21.8	16.1	12.5	10.7	9.26	7.13	5.86	3.08

Discharge at constant power (watts / cell) at 25°C														
F.V/time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	156.1	136.2	107.6	96.7	71.1	60.6	37.1	27.4	21.6	18.8	16.6	12.8	10.7	5.66
1.80V/cell	174.7	152.4	120.4	104.4	74.9	62.4	38.2	29.6	22.9	19.7	17.8	13.5	11.1	5.86
1.75V/cell	186.4	162.7	128.5	105.8	77.1	65.2	40.0	30.1	23.3	20.0	17.9	13.5	11.2	5.91
1.70V/cell	196.0	171.0	135.1	107.0	78.1	66.2	40.7	30.5	23.6	20.2	17.9	13.7	11.3	5.96
1.65V/cell	199.2	173.8	137.3	107.7	78.8	66.8	41.1	30.7	23.9	20.6	18.0	13.8	11.5	6.03
1.60V/cell	201.9	176.2	139.2	108.2	79.2	67.3	41.4	30.8	24.0	20.8	18.0	14.0	11.6	6.09

Dimensions

