

BTL12-120L (12V/120Ah)

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		120.0Ah
Dimensions	Length	408 ±3mm
	Width	177 ±2mm
	Height	225 ±3mm
	Height of the terminals	225 ±3mm
Approx. Weight		36.6kg
Terminals		M8 screw terminals, contact surface Ø 20mm
Container Material		Acrylnitril-Butadien-Styrol (ABS)
Permitted installation position		Max. 90° to upright normal position (see picture above right)
Rated Capacity	132.2AH / 6.61A	20h discharge, 1.80 V / cell, 25°C
	120.0AH / 12.0A	10h discharge, 1.80 V / cell, 25°C
	107.5AH / 21.5A	5h discharge, 1.75 V / cell, 25°C
	97.2AH / 32.4A	3h discharge, 1.75 V / cell, 25°C
	80.4AH / 80.4A	1h discharge, 1.60 V / cell, 25°C
Max. Discharge Current		1300A (5s)
Internal Resistance		Approx. 4.0mΩ
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		36.0A
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	165.7	137.0	119.5	97.3	73.7	62.0	39.3	29.0	23.6	19.8	17.4	13.9	11.5	6.39
1.80V/cell	189.6	153.8	132.0	105.7	79.5	65.3	42.3	31.2	25.0	21.0	18.4	14.6	12.0	6.61
1.75V/cell	215.4	173.3	145.9	114.8	86.8	71.3	44.0	32.4	26.0	21.5	19.0	15.1	12.3	6.78
1.70V/cell	243.2	192.3	161.1	125.4	93.5	75.4	46.3	34.1	27.1	22.8	19.9	15.8	12.8	6.95
1.65V/cell	261.1	205.9	171.3	132.3	98.9	78.0	48.0	35.6	28.1	23.5	20.6	16.4	13.2	7.17
1.60V/cell	287.3	225.5	186.2	141.2	102.7	80.4	49.3	36.4	28.7	24.0	21.0	16.6	13.4	7.28

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	309.4	258.3	227.5	187.4	143.2	120.7	77.3	57.2	46.6	39.2	34.5	27.8	23.2	12.8
1.80V/cell	349.9	286.2	247.8	200.5	153.3	126.8	82.5	61.0	49.2	41.4	36.4	29.1	24.0	13.2
1.75V/cell	391.1	318.7	271.3	216.0	165.7	137.6	85.4	63.3	50.8	42.2	37.4	30.1	24.5	13.5
1.70V/cell	431.8	348.7	297.3	234.6	177.8	145.2	89.9	66.5	52.9	44.6	39.1	31.3	25.5	13.9
1.65V/cell	459.5	370.5	314.0	245.5	186.5	149.0	92.6	68.8	54.8	45.8	40.4	32.2	26.2	14.3
1.60V/cell	494.1	399.2	337.3	260.2	192.7	152.7	94.6	70.3	55.8	46.9	41.1	32.8	26.7	14.5

Dimensions

