EFFEKTA®
innovating power.

BTL12-150L (12V/150Ah)

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		150.0Ah	
Dimensions	Length	483 ±3mm	
	Width	170 ±2mm	
	Height	238.5 ±3mm	
	Height of the terminals	224.5 ±3mm	
Approx. Weight		47.2kg	
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		160.5AH / 8.03A	20h discharge, 1.80 V / cell, 25°C
		150.0AH / 15.0A	10h discharge, 1.80 V / cell, 25°C
		132.5AH / 26.5A	5h discharge, 1.75 V / cell, 25°C
		120.6AH / 40.2A	3h discharge, 1.75 V / cell, 25°C
		96.7AH / 96.7A	1h discharge, 1.60 V / cell, 25°C
Max. Discharge Current		1500A (5s)	
Internal Resistance		Approx. 3.5mΩ	
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		45.0A	
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	190.3	157.9	138.9	114.0	87.6	74.6	48.0	35.9	29.2	24.5	21.3	17.0	14.5	7.76
1.80V/cell	217.8	177.3	153.5	123.9	94.5	78.7	51.6	38.6	31.0	25.9	22.5	17.9	15.0	8.03
1.75V/cell	247.4	199.9	169.6	134.6	103.0	85.8	53.7	40.2	32.0	26.5	23.2	18.5	15.4	8.23
1.70V/cell	279.4	221.8	187.2	146.9	111.0	90.8	56.6	42.3	33.6	28.0	24.3	19.3	16.0	8.44
1.65V/cell	300.0	237.4	199.2	155.1	117.5	93.9	58.7	44.0	34.8	28.9	25.3	19.9	16.4	8.70
1.60V/cell	330.0	260.0	216.3	165.5	122.1	96.7	60.1	45.1	35.6	29.6	25.8	20.3	16.8	8.84

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	355.4	297.9	264.5	219.7	170.1	145.3	94.3	70.8	57.6	48.3	42.3	33.9	29.1	15.5
1.80V/cell	401.9	330.0	288.1	234.9	182.0	152.6	100.7	75.6	60.9	51.1	44.6	35.6	29.9	16.0
1.75V/cell	449.2	367.4	315.4	253.2	196.7	165.6	104.3	78.4	62.8	52.1	45.9	36.7	30.7	16.4
1.70V/cell	496.0	402.0	345.6	274.9	211.1	174.6	109.6	82.3	65.5	54.9	48.0	38.2	31.9	16.8
1.65V/cell	527.8	427.1	364.9	287.8	221.4	179.4	113.0	85.3	67.8	56.5	49.5	39.4	32.7	17.3
1.60V/cell	567.6	460.2	392.1	304.9	228.9	183.8	115.3	87.0	69.2	57.7	50.4	40.0	33.3	17.6

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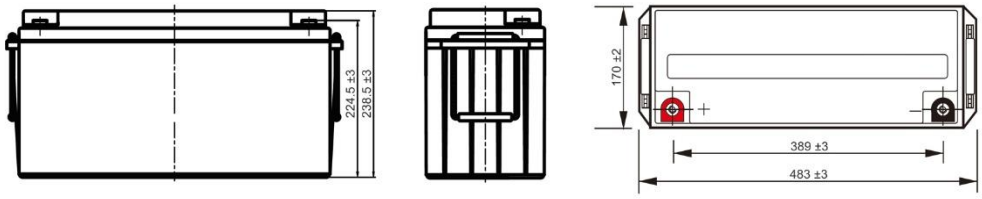
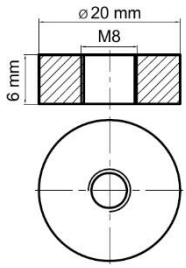
Dimensions

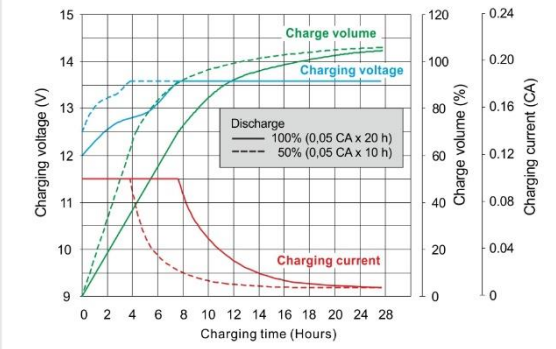
Unit: mm
Dimensions: 483 (L) × 170 (W) × 238.5 (H)



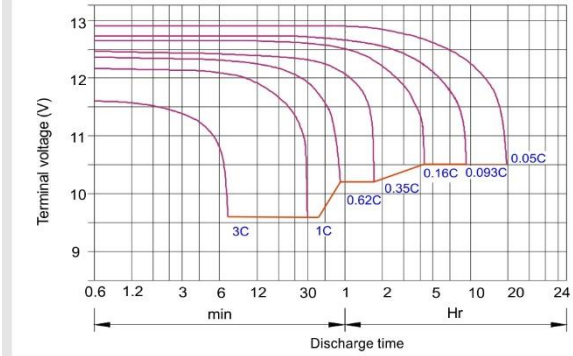
Terminal



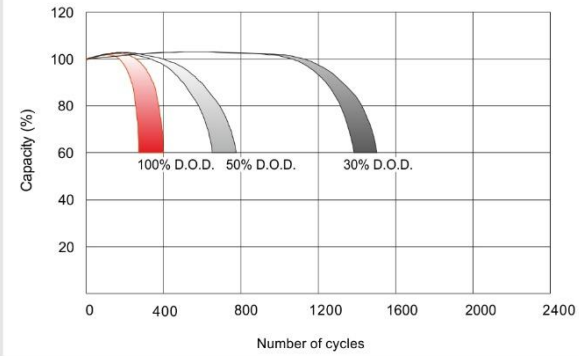
Float charging characteristics



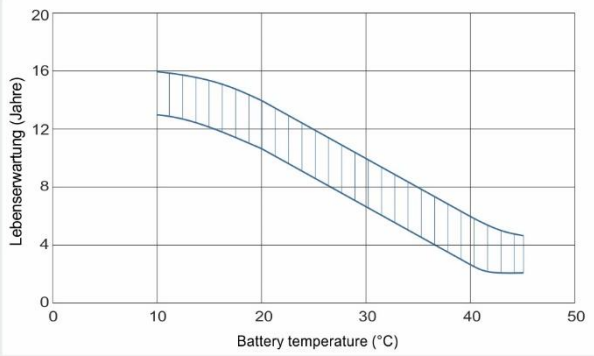
Discharge characteristics



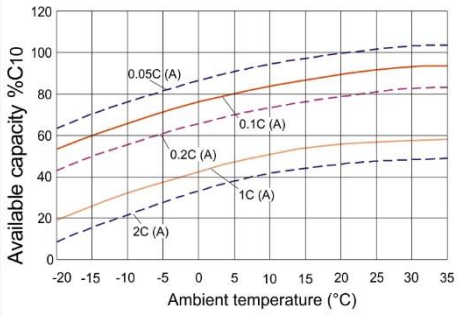
Charging cycle number in relation to discharge depth



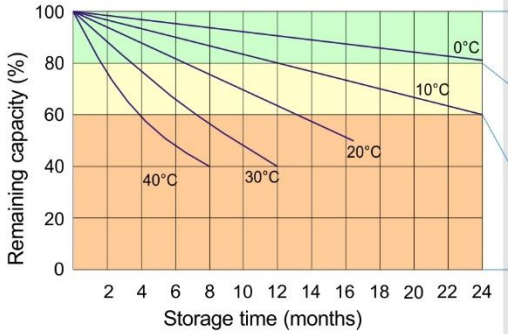
Temperature effect on life expectancy



Effect of temperature on the capacity



Storage / self-discharge characteristics



A charging process is not mandatory. If 100% capacity is required, the batterie should be charged.

Charging is mandatory before use. This covers the minimum capacity and should be done as soon as possible.

Even through a charging process, the minimum capacity will not be reached. The batterie should never be stored until this condition is reached.

Guidelines and recommendations for storage and intervals of refresher charges.

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