

BTL12-45L (12V/45Ah)

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		45.0Ah
Dimensions	Length	197 ±2mm
	Width	165 ±2mm
	Height	170 ±2mm
	Height of the terminals	170 ±2mm
Approx. Weight		14.2 kg
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	46,8 AH / 2,34 A	20h discharge, 1.80 V / cell, 25°C
	45,0 AH / 4,50 A	10h discharge, 1.80 V / cell, 25°C
	40,6 AH / 8,11 A	5h discharge, 1.75 V / cell, 25°C
	36,9 AH / 12,3 A	3h discharge, 1.75 V / cell, 25°C
	28,4 AH / 28,4 A	1h discharge, 1.60 V / cell, 25°C
Max. Discharge Current		450A (5s)
Internal Resistance		Approx. 10mΩ
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		13.5A
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	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1,80V/cell	81,4	71,9	62,2	48,8	43,7	34,6	25,8	15,7	12,1	7,97	5,4	4,5	2,34
1,75V/cell	88,4	78,0	67,4	52,7	44,6	35,9	27,1	16,5	12,3	8,11	5,43	4,52	2,36
1,70V/cell	94,4	83,1	71,6	55,9	45,5	36,6	27,6	16,38	12,5	8,24	5,51	4,54	2,39
1,60V/cell	101,3	88,7	75,9	58,9	46,9	37,7	28,4	17,3	12,8	8,53	5,66	4,66	2,44

Discharge at constant power (watts / cell) at 25°C													
F.V/time	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1,80V/cell	148,4	133,3	116,3	91,9	82,9	66,3	49,6	30,3	23,5	15,6	10,7	8,85	4,65
1,75V/cell	158,6	142,3	124,1	98,1	84,0	67,9	51,8	31,8	23,9	15,8	10,7	8,92	4,69
1,70V/cell	166,8	149,6	130,5	103,1	84,9	68,8	52,6	32,3	24,2	16,1	10,6	9,01	4,73
1,60V/cell	171,8	154,1	134,5	106,2	85,9	69,7	53,4	32,9	24,5	16,5	11,1	9,2	4,84

Dimensions

