

BTL12-100L (12V/100Ah)

BTL series is a general-purpose battery with 10 years design life in float service. 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.



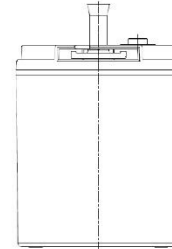
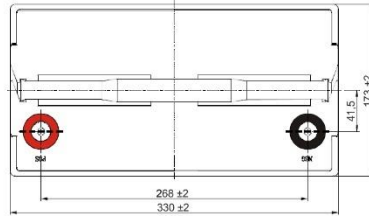
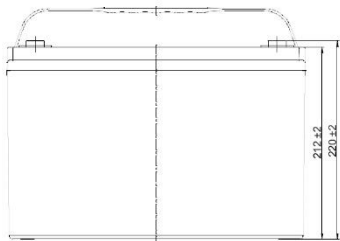
Specifications		
Nominal Voltage		12V
Nominal Capacity		100.0Ah
Dimensions	Length	330 ±2mm
	Width	173 ±1mm
	Height	212 ±1mm
	Total height (with terminal)	220 ±2mm
Approx. Weight		31.5kg
Terminals		F12, M8 screw terminals
Container Material		Acrylnitril-Butadien-Styrol (ABS)
Permitted installation position		Max. 90° to upright normal position (see picture above right)
Rated Capacity	107.0AH / 5.35A	20h discharge, 1.80 V / cell, 25°C
	100.0AH / 10.0A	10h discharge, 1.80 V / cell, 25°C
	87.0AH / 17.4A	5h discharge, 1.75 V / cell, 25°C
	78.0AH / 26.0A	3h discharge, 1.75 V / cell, 25°C
	62.0AH / 62.0A	1h discharge, 1.60 V / cell, 25°C
Max. Discharge Current		1200A (5s)
Internal Resistance		Approx. 4.9mΩ
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		30.0A
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.

Entladung bei konstantem Strom (Ampere) bei 25°C														
F.V/time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	117.0	98.4	87.3	72.4	55.9	47.8	31.0	23.3	17.1	16.0	14.1	11.3	9.69	5.17
1.80V/cell	133.9	110.5	96.5	78.6	60.3	50.5	33.3	25.0	20.3	17.0	14.9	11.9	10.0	5.35
1.75V/cell	152.1	124.5	106.7	85.5	65.7	55.0	34.6	26.0	21.0	17.4	15.4	12.3	10.3	5.49
1.70V/cell	171.7	138.2	117.7	93.3	70.8	58.2	36.5	27.4	21.9	18.4	16.1	12.8	10.7	5.63
1.65V/cell	184.4	147.9	125.3	98.5	74.9	60.2	37.8	28.5	22.8	19.0	16.7	13.2	11.0	5.80
1.60V/cell	202.9	162.0	136.1	105.1	77.9	62.0	38.8	29.2	23.3	19.4	17.0	13.4	11.2	5.89

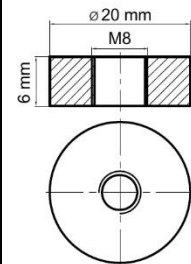
Discharge at constant power (watts / cell) at 25°C														
F.V/time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	218.5	185.6	166.3	139.4	108.5	93.2	60.7	45.8	37.7	31.8	27.9	22.5	19.4	10.3
1.80V/cell	247.1	205.6	181.2	149.2	116.1	97.8	64.8	49.0	39.8	33.5	29.4	23.6	20.0	10.7
1.75V/cell	276.2	228.9	198.3	160.8	125.5	106.1	67.2	50.7	41.0	34.2	30.3	24.3	20.5	10.9
1.70V/cell	304.9	250.5	217.3	174.6	134.7	112.0	70.6	53.3	42.8	36.1	31.7	25.3	21.2	11.2
1.65V/cell	324.5	266.2	229.5	182.7	141.2	115.0	72.8	55.2	44.3	37.1	32.7	26.1	21.8	11.6
1.60V/cell	348.9	283.8	246.6	193.6	146.0	117.8	74.3	56.4	45.2	37.9	33.3	26.5	22.2	11.7

Dimensions

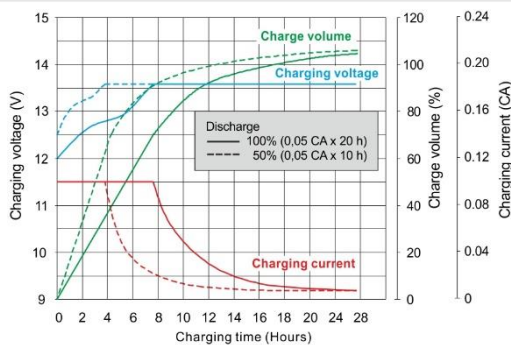
Unit: mm
Dimensions: 330 (L) × 173 (B) × 220 (H)



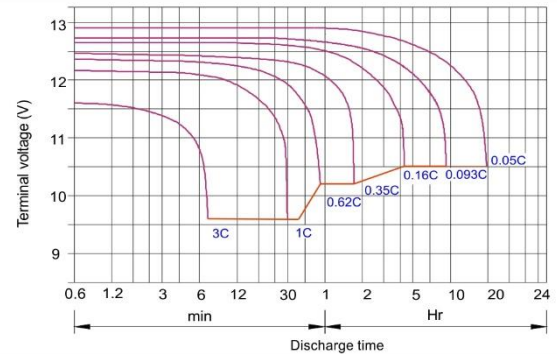
Terminal F12



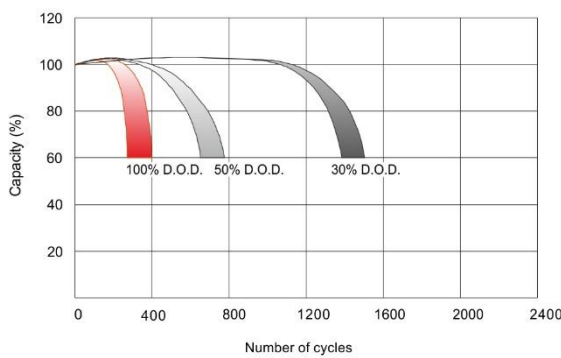
Float charging characteristics



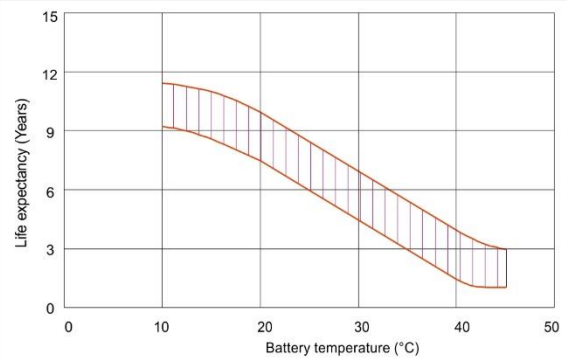
Discharge characteristics



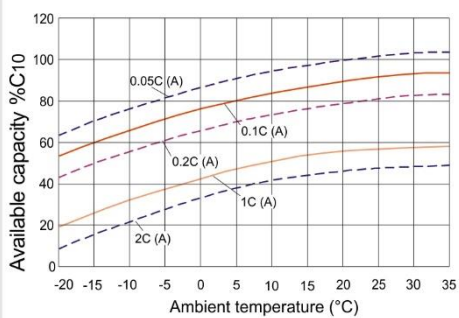
Charging cycle number in relation to discharge depth



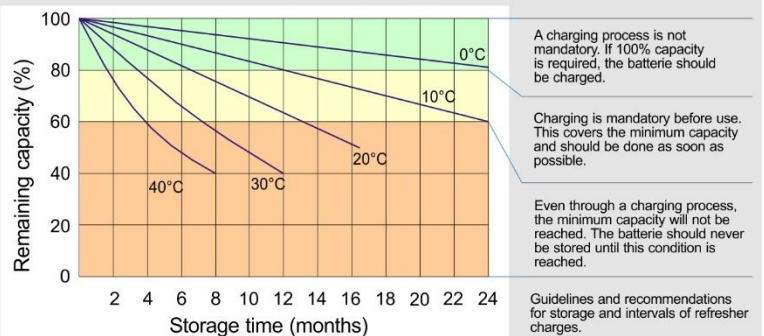
Temperature effect on the life expectancy



Effect of temperature on the capacity



Storage / self-discharge characteristics



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