

BTL12-9K (12V/9Ah)

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		9.5Ah
Dimensions	Length	151 ±2mm
	Width	65 ±1mm
	Height	94 ±2mm
	Height of the terminals	100 ±2mm
Approx. Weight		2.7 kg
Terminals		Plug connector 6.35 mm
Container Material		Acrylnitril-Butadien-Styrol (ABS)
Permitted installation position		Max. 90° to upright normal position (see picture above right)
Rated Capacity	9 Ah / 0,45 A	20 h, 25°C
	8,3 Ah / 0,83 A	10 h, 25°C
	7,2 Ah / 1,44 A	5 h, 25°C
	5,4 Ah / 5,4 A	1 h, 25°C
	3,9 Ah / 15,6 A	15 min., 25°C
Max. Discharge Current		135A (5s)
Internal Resistance		Approx. 18mΩ
Operating temperature range	Discharge	-15 ~ 40°C
	Charge	0 ~ 40°C
	Storage (charged)	-15 ~ 40°C
Recommended operating temperature		Approx. 20°C
Initial charging current		Less than 2,7A
Charging voltage	Boost charge	Voltage 14.4 V ~ 14.7V @ 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	102%
	25°C	100%
	0°C	85%
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	30min	1h	2h	3h	4h	5h	10h	20h
1.80V/cell	28.8	19.3	13.9	8.92	5.30	3.06	2.22	1.71	1.42	0.81	0.44
1.75V/cell	30.6	19.4	14.2	9.18	5.40	3.16	2.26	1.73	1.44	0.83	0.45
1.70V/cell	32.0	20.3	14.5	9.28	5.51	3.20	2.26	1.75	1.46	0.83	0.45
1.67V/cell	33.5	21.2	15.1	9.46	5.62	3.24	2.28	1.76	1.46	0.83	0.46
1.60V/cell	34.3	21.8	15.6	9.72	5.72	3.36	2.32	1.80	1.48	0.85	0.46

Discharge at constant power (watts / cell) at 25°C											
F.V/time	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.80V/cell	53.7	36.3	26.7	17.0	9.65	6.00	4.43	3.42	2.84	1.64	0.88
1.75V/cell	57.0	36.7	27.4	17.6	9.80	6.17	4.5	3.46	2.88	1.68	0.90
1.70V/cell	59.3	38.0	27.9	17.7	10.0	6.23	4.50	3.49	2.92	1.68	0.91
1.67V/cell	62.3	39.7	29.0	18.0	1.02	6.33	4.53	3.51	2.91	1.69	0.91
1.60V/cell	63.7	40.7	30.1	18.5	10.4	6.53	4.60	3.58	2.95	1.70	0.92

Dimensions

