

BT12-12L VdS (12V/12Ah)

BT series is a general-purpose battery with 5 years design life in float service. It meets with IEC, JIS and BS standards. With updated AGM valve regulated technology and high purity raw materials, the BT 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(20HR)		12Ah
Dimensions	Length	151 ± 2mm
	Width	98 ± 1mm
	Height	95 ± 1mm
	Height of the terminals	101 ± 1mm
Approx Weight		3,50kg
Terminal		FASTON 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	12.0Ah / 0.6A	20h discharge, 1.80V / cell, 25°C
	11.2Ah / 1.12A	10h discharge, 1.80V / cell, 25°C
	10.2Ah / 2.04A	5h discharge, 1.75V / cell, 25°C
	9.2Ah / 3.06A	3h discharge, 1.75V / cell, 25°C
	7.54Ah / 7.54A	1h discharge, 1.60V / cell, 25°C
Max. Discharge Current		180A (5s)
Internal Resistance		Ca. 19 mΩ
Operating temperature range	Discharge	-15 ~ 40°C
	Charge	0 ~ 40°C
	Storage (charged)	-15 ~ 40°C
Nominal operating temperature		25 ± 3°C
Max. charging current		3.6 A
Charging voltage	Boost charge	Voltage 14.4 V ~ 13.8V @ 25°C Temperature coefficient -20mV/°C
	Float charging	Voltage 13.7V ~ 13.9V @ 25°C Temperature coefficient -3 mV/°C
Capacity affected by temperature	40°C	103%
	25°C	100%
	0°C	86%
Max. Discharge Current		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	4h	5h	6h	8h	10h	20h
1.85V/cell	22.9	15.2	12.5	11.0	9.0	7.04	5.83	3.58	1.70	2.22	1.88	1.63	1.30	1.08	0.594
1.80V/cell	27.4	18.2	14.7	12.6	10.1	7.73	6.31	3.84	2.88	2.36	1.98	1.70	1.34	1.12	0.600
1.75V/cell	32.8	20.9	16.4	13.9	10.8	8.27	6.67	4.00	2.98	2.42	2.03	1.75	1.38	1.14	0.606
1.70V/cell	38.1	23.3	18.0	15.1	11.5	8.67	6.96	4.14	3.05	2.47	2.08	1.79	1.40	1.16	0.617
1.65V/cell	42.0	25.3	19.3	16.2	12.1	9.1	7.20	4.27	3.14	2.54	2.12	1.82	1.42	1.18	0.625
1.60V/cell	46.3	27.4	20.8	17.1	12.8	9.4	7.49	4.38	3.21	2.60	2.17	1.86	1.45	1.20	0.629

Discharge at constant power (watts / cell) at 25°C															
F.V/time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	42.6	28.4	23.6	20.8	17.1	13.5	11.3	6.96	5.26	4.33	3.69	3.20	2.56	2.14	1.18
1.80V/cell	49.5	33.4	27.2	23.6	19.0	14.7	12.1	7.41	5.58	4.59	3.86	3.33	2.65	2.21	1.19
1.75V/cell	58.8	37.9	30.0	25.8	20.2	15.7	12.7	7.69	5.75	4.68	3.95	3.42	2.71	2.26	1.20
1.70V/cell	67.3	41.7	32.7	27.8	21.4	16.3	13.2	7.94	5.88	4.78	4.04	3.48	2.75	2.29	1.22
1.65V/cell	73.1	44.6	34.7	29.5	22.4	16.9	13.6	8.17	6.02	4.88	4.11	3.54	2.79	2.32	1.23
1.60V/cell	79.2	47.5	36.6	30.6	23.3	17.5	14.1	8.33	6.13	4.99	4.18	3.61	2.84	2.35	1.24

Dimensions:

