

BT12-5 (12V / 5Ah)

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	5Ah	
Dimensions	Length	90 ± 1.5mm
	Width	70 ± 1.5mm
	Height	101 ± 1.5mm
	Height of the terminals	107 ± 1.5mm
Approx. Weight	1,5 kg ± 5%	
Terminals	Plug connection / 6.35 mm width	
Container Material	Acrylnitril-Butadien-Styrol (ABS)	
Permitted installation position	Max. 90 ° to upright normal position (see picture above right)	
Rated Capacity	5.04Ah	20h discharge, 1.80 V / cell, 25°C
	4.70Ah	10h discharge, 1.80 V / cell, 25°C
	4.38Ah	5h discharge, 1.75 V / cell, 25°C
	3.88Ah	3h discharge, 1.75 V / cell, 25°C
Max. Discharge Current	50A (5s)	
Internal Resistance	Approx. 35mΩ	
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	1.5A	
Charging voltage	Boost charge	Voltage 14.6V~14.8V @ 25°C Temperature coefficient -4mV/°C
	Float charging	Voltage 13.7V~13.9V @ 25°C Temperature coefficient -3 mV/°C
Capacity affected by temperature	40°C	104%
	25°C	100%
	0°C	83%
Self-discharge	EFFEKTA BT 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	8h	10h	20h
1.85V/cell	13.61	9.504	7.287	4.409	2.642	1.623	1.196	0.961	0.819	0.555	0.455	0.240
1.80V/cell	15.47	10.55	7.981	4.757	2.815	1.705	1.251	1.002	0.851	0.574	0.470	0.247
1.75V/cell	16.98	11.38	8.531	5.028	2.949	1.769	1.293	1.034	0.876	0.589	0.481	0.252
1.70V/cell	18.18	12.04	8.959	5.238	3.052	1.818	1.326	1.058	0.895	0.600	0.489	0.255
1.65V/cell	19.11	12.54	9.288	5.398	3.130	1.854	1.350	1.076	0.909	0.608	0.496	0.258
1.60V/cell	19.82	12.93	9.538	5.520	3.189	1.882	1.368	1.089	0.920	0.614	0.500	0.260

Discharge at constant power (watts / cell) at 25°C												
F.V/time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	25.46	17.94	13.90	8.55	5.17	3.20	2.37	1.91	1.63	1.11	0.91	0.48
1.80V/cell	28.63	19.57	15.01	9.13	5.47	3.35	2.47	1.98	1.69	1.15	0.94	0.50
1.75V/cell	30.88	20.75	15.82	9.56	5.70	3.45	2.54	2.04	1.73	1.17	0.96	0.51
1.70V/cell	32.47	21.56	16.37	9.86	5.87	3.53	2.59	2.08	1.76	1.19	0.98	0.51
1.65V/cell	33.76	22.21	16.83	10.10	6.00	3.59	2.63	2.11	1.79	1.21	0.99	0.52
1.60V/cell	34.12	22.31	16.92	10.18	6.05	3.62	2.65	2.12	1.80	1.22	1.00	0.52

Dimensions

