

BTL12-18 (12V/18Ah)

BTL series is a general purpose battery with 10-12 years design life in float service according to Eurobat. It meets with IEC, JIS and BS standards. 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(10HR)		18.0Ah
Dimension	Length	181.5 ±2mm
	Width	77 ±1mm
	Container Height	167.5 ±1mm
	Height of the terminals	167.5 ±2mm
Approx Weight		5.7 Kg
Terminal		F13
Container Material		ABS
Rated Capacity	18.00AH / 0.900A	(20hr, 1.75V/cell, 25°C/77°F)
	17.10AH / 1.71A	(10hr, 1.75V/cell, 25°C/77°F)
	15.80AH / 3.16A	(5hr, 1.75V/cell, 25°C/77°F)
	14.52AH / 4.84A	(3hr, 1.75V/cell, 25°C/77°F)
	12.10AH / 12.1A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current		270 A (5s)
Internal Resistance		Approx 16.0mΩ
Operating Temp. Range	Discharge	-15 ~ 40°C
	Charge	0 ~ 40°C
	Storage	-15 ~ 40°C
Nominal Operating Temp. Range		25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 5.4A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	EFFEKTA BTL series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	36.0	29.0	24.3	18.3	13.6	11.1	6.43	4.70	3.70	3.08	2.64	2.07	1.67	0.882
1.80V/cell	37.8	30.1	25.1	18.7	13.8	11.3	6.53	4.77	3.76	3.12	2.67	2.10	1.69	0.891
1.75V/cell	39.6	31.2	25.8	19.2	14.1	11.5	6.63	4.84	3.81	3.16	2.70	2.12	1.71	0.900
1.70V/cell	41.5	32.3	26.6	19.6	14.4	11.7	6.73	4.91	3.86	3.21	2.74	2.15	1.73	0.910
1.65V/cell	42.6	33.0	27.0	19.9	14.5	11.8	6.80	4.95	3.89	3.23	2.76	2.17	1.74	0.915
1.60V/cell	45.2	34.5	28.1	20.5	14.9	12.1	6.93	5.05	3.97	3.29	2.81	2.20	1.77	0.928

Constant Power Discharge (Watts/cell) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	68.8	55.6	46.8	35.3	26.3	21.6	12.6	9.23	7.30	6.09	5.22	4.11	3.31	1.76
1.80V/cell	71.9	57.5	48.0	36.0	26.7	21.9	12.7	9.35	7.39	6.16	5.28	4.16	3.35	1.78
1.75V/cell	75.0	59.3	49.2	36.7	27.2	22.2	12.9	9.47	7.48	6.23	5.34	4.20	3.39	1.80
1.70V/cell	78.1	61.1	50.4	37.4	27.6	22.5	13.1	9.59	7.57	6.30	5.40	4.25	3.43	1.82
1.65V/cell	79.9	62.2	51.2	37.8	27.8	22.7	13.2	9.66	7.62	6.34	5.44	4.28	3.45	1.83
1.60V/cell	84.1	64.5	52.8	38.8	28.4	23.1	13.4	9.82	7.74	6.44	5.52	4.34	3.50	1.86

Dimensions

