

BC18-12 | 12V 18Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	18Ah
Dimensions	Length 181 ± 3 mm (7.15 inches)
	Width 76 ± 3 mm (3.00 inches)
	Container Height 167 ± 3 mm (6.59 inches)
	Total Height 167 ± 3 mm (6.59 inches)
Approximate Weight	4.70kg ± 3% (10.40 lbs)
Short-circuit current	504A
Internal Resistance (25°C)	Approx. 18mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored 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.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.9	33.0	25.9	21.0	15.5	11.3	9.13	6.91	5.61	4.18	3.40	2.94	2.53	2.01	1.66	0.880
1.80V/cell	51.5	35.0	27.2	21.9	16.0	11.6	9.35	7.06	5.72	4.25	3.45	2.99	2.57	2.04	1.68	0.890
1.75V/cell	54.3	36.4	28.1	22.5	16.4	11.8	9.54	7.19	5.82	4.32	3.49	3.02	2.60	2.07	1.70	0.900
1.70V/cell	56.8	37.9	29.0	23.1	16.9	12.1	9.72	7.31	5.90	4.38	3.54	3.07	2.63	2.09	1.72	0.907
1.67V/cell	58.8	39.0	29.7	23.6	17.2	12.3	9.87	7.40	5.97	4.42	3.57	3.09	2.66	2.10	1.73	0.914
1.60V/cell	62.4	40.6	30.7	24.3	17.6	12.6	10.1	7.56	6.09	4.51	3.64	3.14	2.69	2.13	1.75	0.924

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	90.0	62.1	48.6	40.5	30.0	21.9	17.8	13.5	11.0	8.22	6.69	5.81	5.01	3.99	3.30	1.76
1.80V/cell	95.9	65.4	50.7	41.9	30.8	22.4	18.1	13.7	11.2	8.34	6.77	5.89	5.08	4.05	3.34	1.78
1.75V/cell	99.9	67.5	52.1	42.8	31.5	22.8	18.4	14.0	11.3	8.45	6.86	5.96	5.13	4.09	3.37	1.80
1.70V/cell	103.6	69.7	53.5	43.8	32.1	23.2	18.7	14.2	11.5	8.56	6.94	6.03	5.19	4.13	3.41	1.82
1.67V/cell	106.3	71.3	54.6	44.6	32.6	23.5	19.0	14.3	11.6	8.63	7.00	6.07	5.23	4.16	3.43	1.83
1.60V/cell	110.6	73.4	56.1	45.7	33.4	23.9	19.3	14.6	11.8	8.77	7.10	6.15	5.29	4.21	3.47	1.85

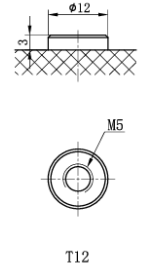
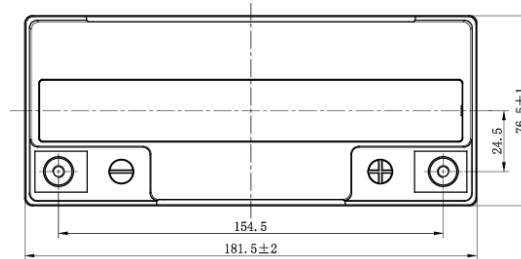
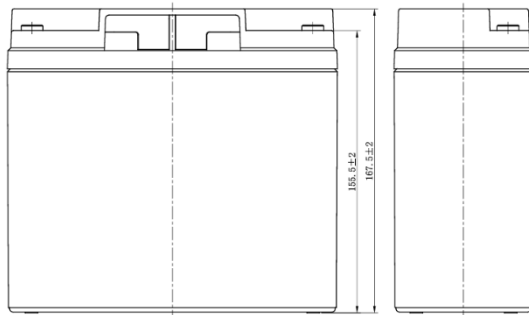
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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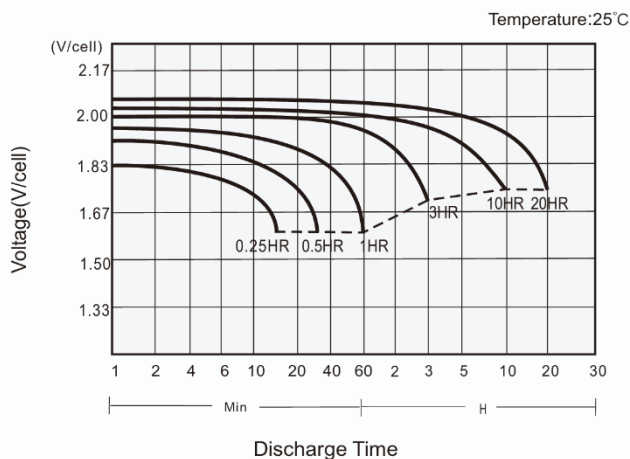
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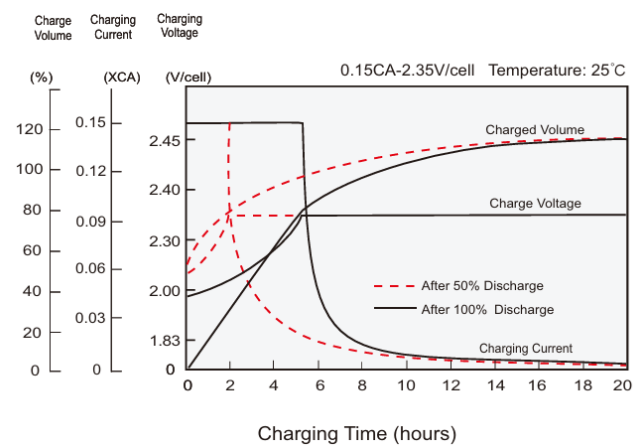
Dimensions | Terminal Type (unit:mm)



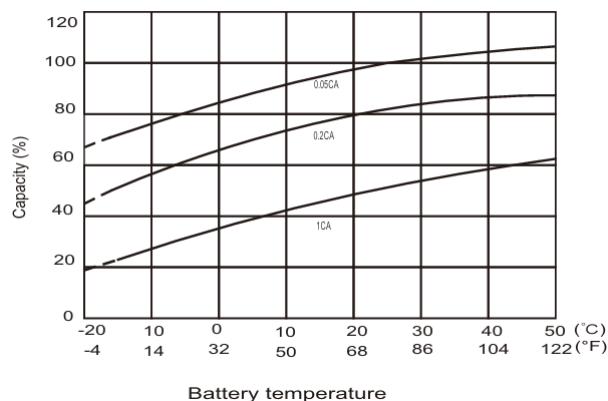
Discharge Characteristics



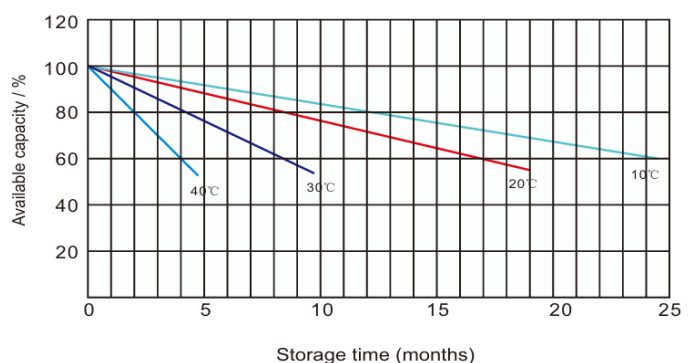
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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