

BC2.3-12 | 12V 2.3Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	2.3Ah
Dimensions	Length 178 ± 3 mm (7.01 inches)
	Width 35 ± 3 mm (1.38 inches)
	Container Height 60 ± 3 mm (2.36 inches)
	Total Height 66 ± 3 mm (2.60 inches)
Approximate Weight	0.80 kg ± 5% (1.76 lbs)
Short-circuit current	64.4A
Internal Resistance (25°C)	Approx. 56mΩ (fully charged)
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	6.69	4.85	3.74	3.08	2.32	1.73	1.38	1.03	0.827	0.606	0.488	0.399	0.339	0.260	0.211	0.113
1.80V/cell	7.25	5.09	3.88	3.18	2.37	1.76	1.42	1.05	0.840	0.616	0.494	0.410	0.343	0.263	0.214	0.114
1.75V/cell	7.84	5.34	4.02	3.27	2.44	1.80	1.44	1.06	0.853	0.625	0.502	0.415	0.349	0.267	0.216	0.115
1.70V/cell	8.43	5.59	4.17	3.37	2.49	1.84	1.47	1.08	0.867	0.634	0.508	0.420	0.353	0.270	0.219	0.116
1.67V/cell	8.77	5.74	4.25	3.43	2.52	1.86	1.48	1.09	0.875	0.639	0.512	0.427	0.358	0.273	0.221	0.117
1.60V/cell	9.56	6.09	4.45	3.56	2.60	1.90	1.52	1.11	0.893	0.652	0.522	0.431	0.364	0.276	0.224	0.118

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	12.70	9.28	7.17	5.93	4.48	3.35	2.70	2.00	1.62	1.19	0.960	0.813	0.681	0.516	0.420	0.225
1.80V/cell	13.70	9.69	7.42	6.09	4.58	3.42	2.75	2.03	1.64	1.20	0.972	0.822	0.689	0.521	0.425	0.228
1.75V/cell	14.70	10.10	7.64	6.25	4.66	3.47	2.78	2.05	1.66	1.23	0.984	0.832	0.697	0.527	0.430	0.229
1.70V/cell	15.70	10.50	7.87	6.40	4.75	3.52	2.82	2.09	1.68	1.24	1.00	0.842	0.704	0.533	0.434	0.232
1.67V/cell	16.20	10.80	8.02	6.49	4.80	3.55	2.84	2.11	1.69	1.25	1.00	0.847	0.710	0.537	0.437	0.232
1.60V/cell	17.60	11.40	8.32	6.71	4.92	3.63	2.90	2.14	1.72	1.27	1.02	0.860	0.720	0.545	0.444	0.235

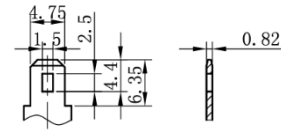
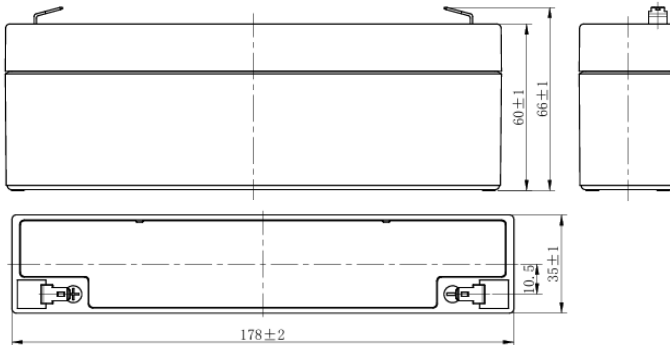
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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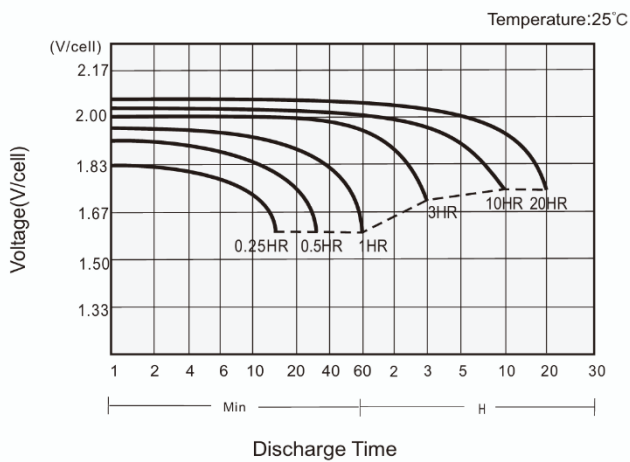
BLACK BATT.

Dimensions | Terminal Type (unit:mm)

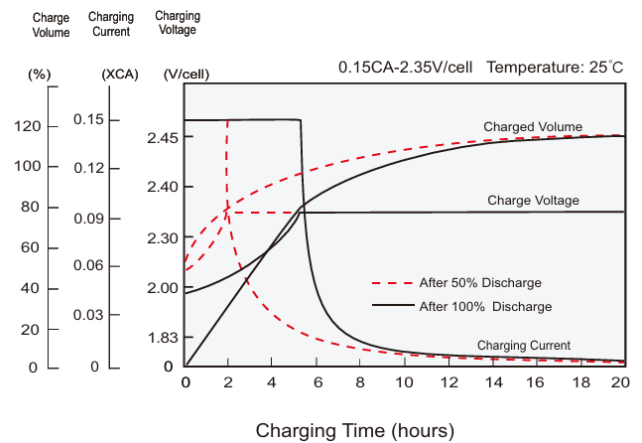


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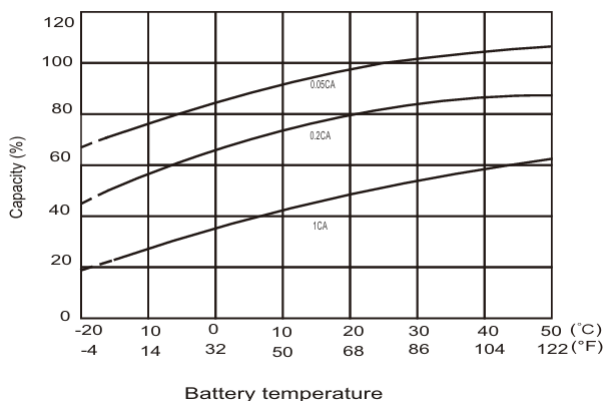
Discharge Characteristics



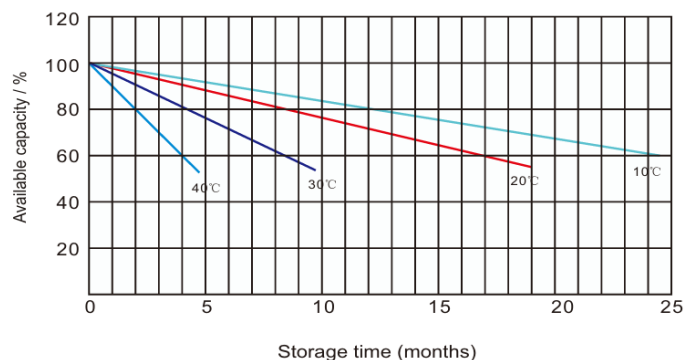
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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