

EB12-45

12V45Ah / 10hr rate



Introduction

Generagy EB series is designed for European standard with 12-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in float service, UPS/EPSS, medical equipment, telecom, photovoltaic, control system and security system.

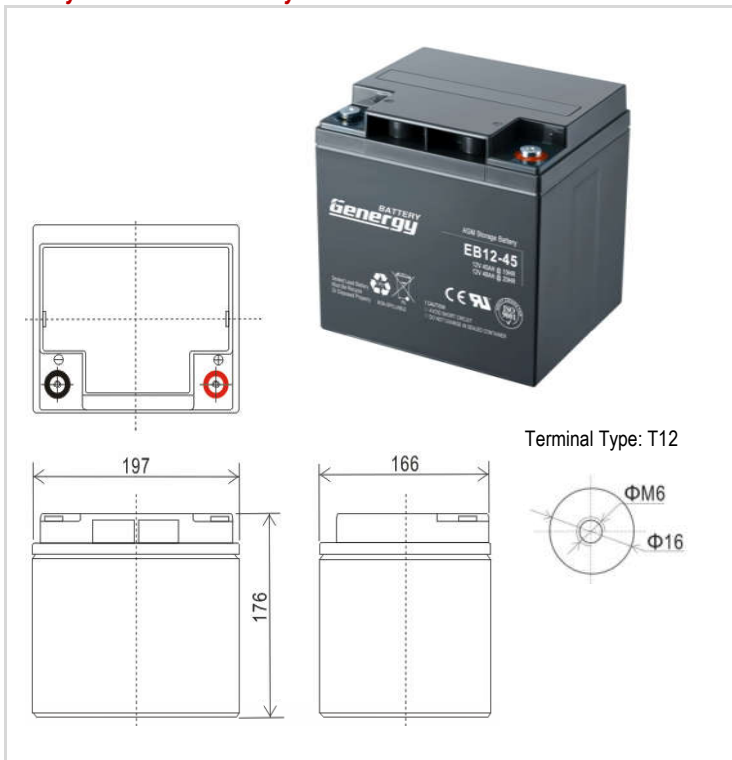
Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- Very high purity lead

Electrical Specification

Design floating Life @ 20°C (68°F)	12 years
Nominal Capacity @ 20°C (68°F)	
20 hour rate 2.33A to 1.75Vpc	46.6 Ah
10 hour rate 4.5A to 1.80Vpc	45 Ah
Internal Resistance	
(Fully charged battery @ 20°C (68°F))	8 mΩ
Max. Discharge Current @ 20°C (68°F)	450 A (5S)
Charge Methods: Constant voltage charge @ 20°C (68°F)	
Cycle Use	14.7 ~ 14.9V
Max. Current	12 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 20°C (68°F).	

Battery Picture & Terminal Layout



Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
197 mm	166 mm	176 mm	176 mm	14.0 kg	
7.8 inch	6.5 inch	6.9 inch	6.9 inch	30.9 lbs	

Typical Applications

- UPS & EPSS ○ Telecommunications ○ Power Utility ○ Security Power Supply

Certificates



Constant Current Discharge (Amperes @ 20°C (68°F))

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	108.59	82.89	71.61	60.33	51.06	45.94	42.84	39.74	37.16	34.92	33.27	18.04	12.84	10.66	8.72	4.66	2.35
1.65	103.11	78.71	68.37	58.02	49.69	44.73	41.78	38.83	36.40	34.32	32.82	17.69	12.59	10.44	8.51	4.63	2.35
1.70	98.85	75.46	65.67	55.87	48.09	43.24	40.41	37.58	35.27	33.30	31.92	17.09	12.30	10.19	8.31	4.59	2.35
1.75	94.29	71.98	62.74	53.49	46.27	41.61	38.97	36.33	34.21	32.43	31.24	16.62	12.03	9.97	8.13	4.54	2.33
1.80	89.43	68.26	59.65	51.04	44.45	39.94	37.45	34.97	33.00	31.38	30.34	16.02	11.74	9.72	7.93	4.50	2.31

Constant Power Discharge (Watts/cell @ 20°C (68°F))

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	188.58	143.96	126.69	109.42	95.38	86.04	79.92	73.81	68.62	64.23	60.66	33.35	24.27	20.14	16.58	9.29	4.90
1.65	181.89	138.85	122.45	106.05	92.87	83.76	77.87	71.99	67.03	62.87	59.53	32.67	24.04	19.91	16.36	9.20	4.80
1.70	174.90	133.51	117.90	102.29	89.91	81.10	75.52	69.94	65.29	61.44	58.40	31.88	23.60	19.57	16.11	9.02	4.70
1.75	167.29	127.70	112.96	98.22	86.71	78.21	72.94	67.67	63.32	59.78	57.05	30.87	22.93	19.08	15.82	8.96	4.66
1.80	159.08	121.43	107.64	93.85	83.29	75.10	70.13	65.17	61.13	57.89	55.46	29.78	22.32	18.60	15.46	8.87	4.62

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Web: www.generagybattery.com | Email: sales@generagybattery.com

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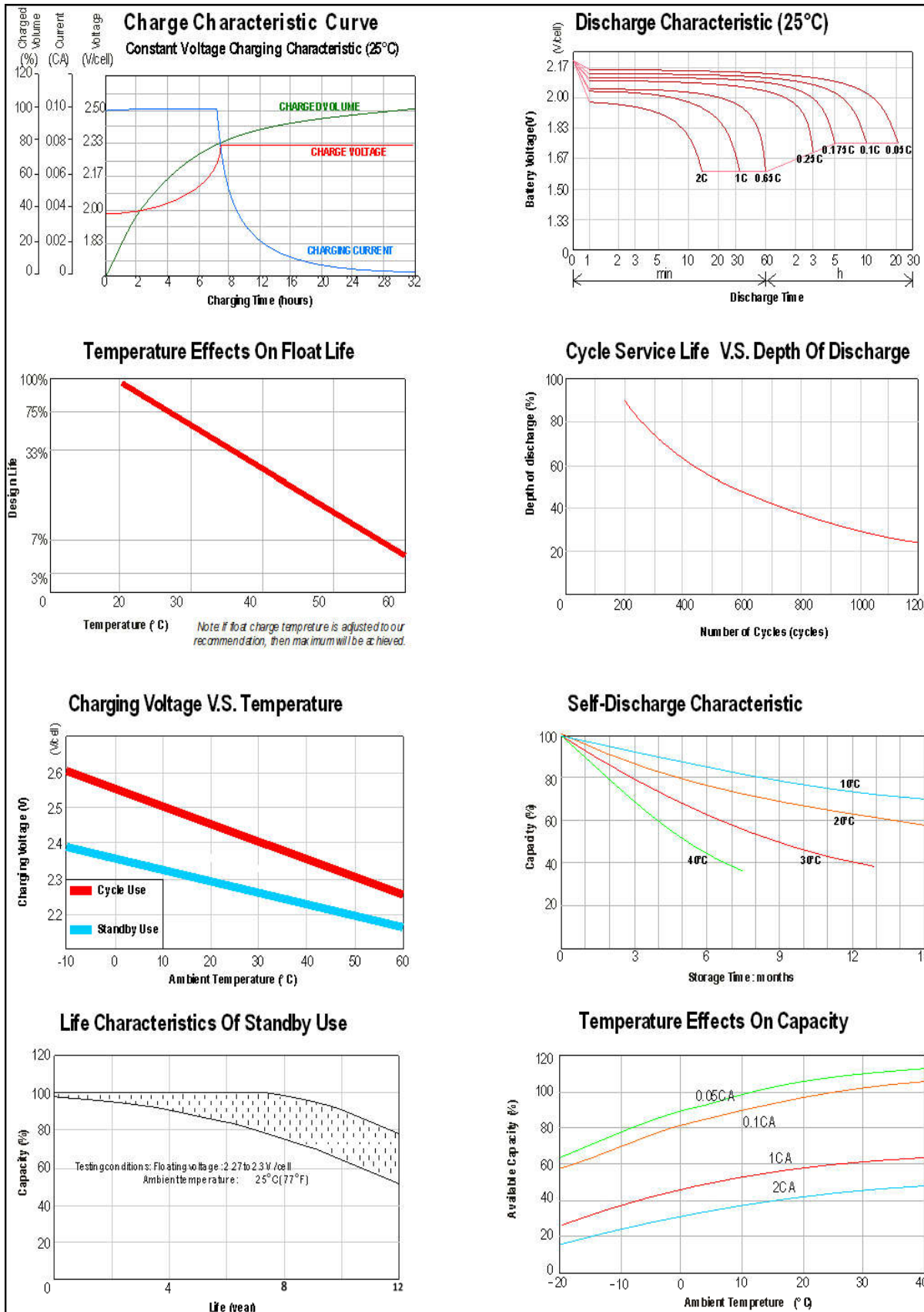
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Graphs



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37.83	35.68	19.59	14.10	11.58	9.47	5.06	2.55
36.49	34.56	18.77	13.57	11.12	9.07	4.94	2.51
35.40	33.60	18.13	13.26	10.86	8.86	4.89	2.51
34.47	32.88	17.63	12.98	10.62	8.67	4.84	2.48
33.35	31.92	16.99	12.67	10.36	8.45	4.72	2.46

69.92	68.40	37.08	26.77	21.45	17.67	9.90	5.22
68.47	67.20	36.36	26.53	21.21	17.43	9.80	5.22
66.94	65.99	35.52	26.05	20.84	17.17	9.61	5.15
65.17	64.55	34.44	25.34	20.33	16.86	9.54	5.06
63.16	62.86	33.27	24.70	19.82	16.48	9.45	5.01

36. 22263 34. 16424 18. 75747 13. 49969 11. 08653 9. 064455 4. 843279 2. 446145
34. 93326 33. 09335 17. 97061 12. 99686 10. 64537 8. 684981 4. 727302 2. 399104
33. 89311 32. 17158 17. 36155 12. 70052 10. 39462 8. 479824 4. 681627 2. 399104
33. 00614 31. 48025 16. 87912 12. 42698 10. 16667 8. 297462 4. 635953 2. 376683
31. 92712 30. 55847 16. 27006 12. 13064 9. 915924 8. 092305 4. 515117 2. 354261
0 0 0 0 0 0 0 0
66. 9484 65. 48881 35. 49819 25. 62956 20. 5385 16. 91406 9. 477441 5. 000002
65. 56078 64. 3366 34. 80811 25. 4016 20. 31055 16. 68611 9. 386092 5. 000002
64. 09544 63. 18438 34. 00405 24. 9457 19. 95722 16. 43536 9. 203394 4. 932738
62. 39921 61. 80172 32. 97079 24. 26184 19. 46712 16. 13902 9. 134883 4. 843051
60. 47208 60. 18861 31. 8565 23. 64637 18. 97703 15. 7743 9. 043534 4. 798208
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