

NERBO®

NBC 50-12i

NBC series is specially designed for frequent deep cycle discharge. By using the specially designed active material and strong grids, the NBC series battery offers reliable performance in high load situations. Suitable for power-driven scooters, electric wheel chairs etc.



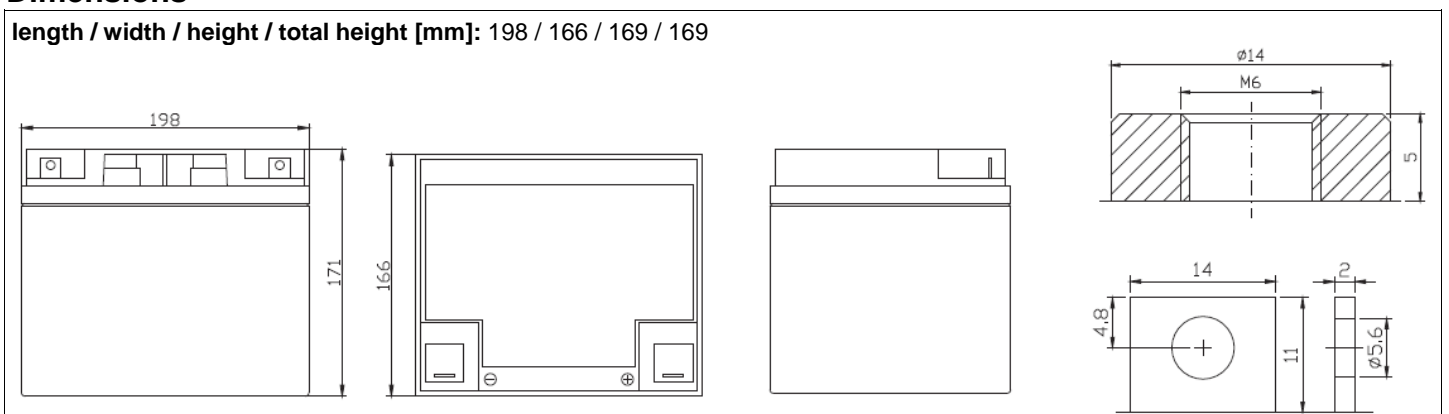
Specification

No of cells	6
Voltage	12 V
Capacity	50 Ah at 20 h discharge down to 1.8V by cell at 25°C
Weight	Approx. 14,6 kg
Max discharge current	500 A (5 s)
Internal resistance	Approx. 7 mΩ
Working temperature	Discharge: -20°C ÷ 60°C Charge: 0°C ÷ 50°C Storage: -20°C ÷ 60°C
Optimum working temperature	25°C±5°C
Max Charge current	13,5 A
Charge voltage	14,6÷14,8 VDC for cyclic work at 25°C
Self-discharge	Batteries may be stored for longer than 6 months at 25°C. Before use please charge batteries.
Terminal	Internal thread M6
Case material	A.B.S. (UL94-HB), fire resistance UL94-V-0 custom available.

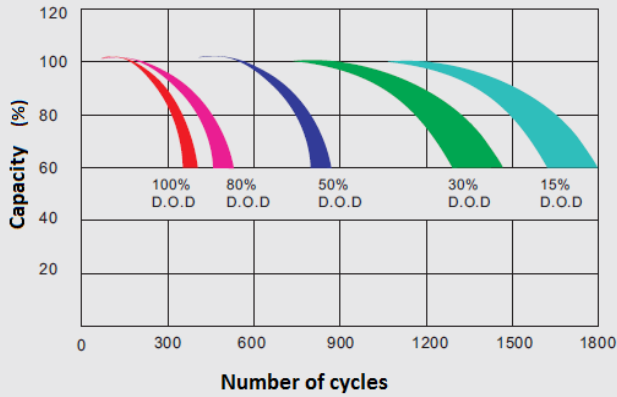


Dimensions

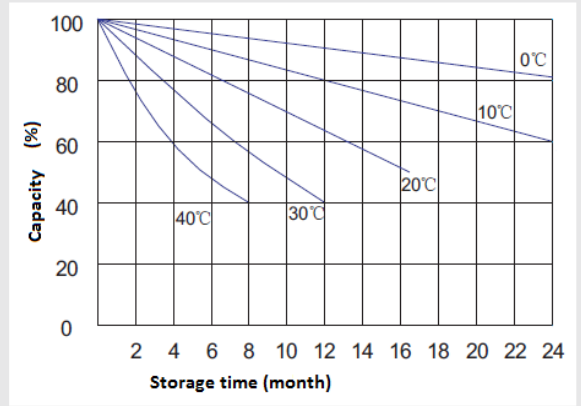
length / width / height / total height [mm]: 198 / 166 / 169 / 169



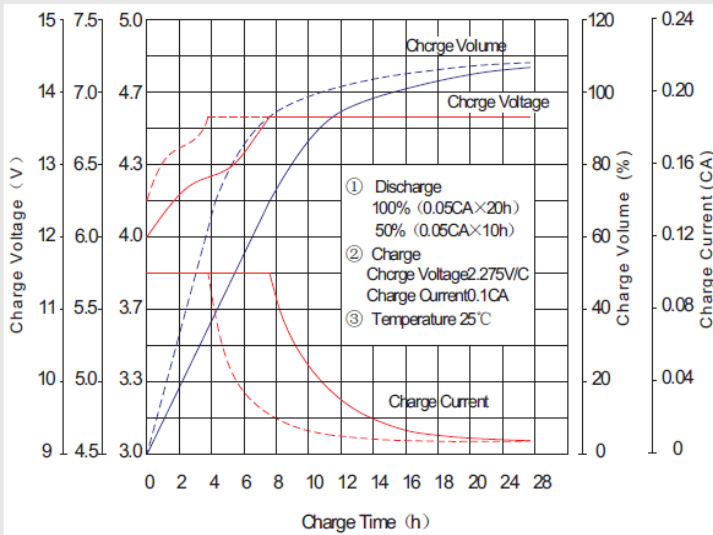
Cyclical useful life



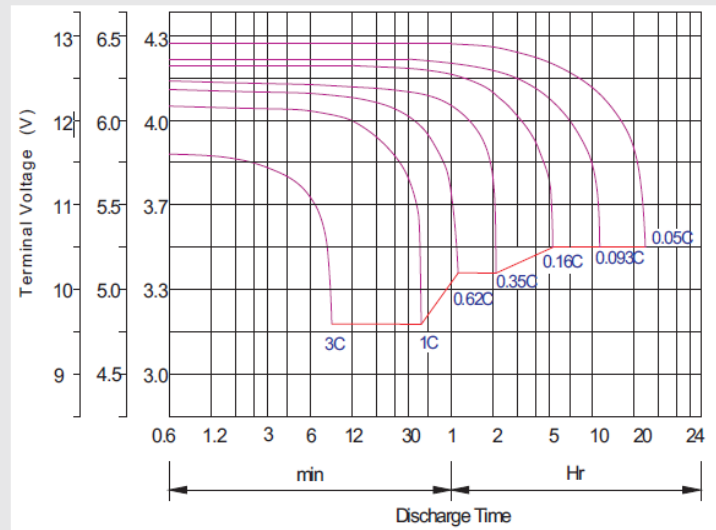
Self-discharge in time



Charge characteristics



Discharge characteristics



Constant current characteristics: A at 25°C

Voltage / Time	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
9,6 V	167,34	123,14	90,91	53,20	30,42	18,55	12,51	10,41	8,29	5,98	4,87	2,58
10,0 V	162,45	117,21	89,03	52,28	29,82	18,42	12,42	10,36	8,24	5,94	4,54	2,53
10,2 V	157,66	113,05	87,64	51,31	29,07	18,27	12,19	10,31	8,19	5,89	4,78	2,48
10,5 V	141,54	104,34	83,44	50,93	28,45	18,14	11,90	10,21	8,09	5,84	4,73	2,43
10,8 V	127,82	95,15	76,92	50,06	27,61	17,82	11,71	9,97	8,03	5,74	4,68	2,41
11,1 V	109,10	85,04	68,99	46,86	26,63	17,03	11,50	9,49	7,82	5,50	4,63	2,31

Constant power characteristics: W at 25°C

Voltage / Time	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
9,6 V	1764	1324	1005	608	351,52	220,27	148,82	124,07	99,33	71,46	58,43	31,75
10,0 V	1730	1284	989	601	350,69	219,54	148,20	123,86	98,61	71,11	58,05	31,20
10,2 V	1710	1250	982	596	347,98	218,19	145,91	123,66	98,28	70,65	57,54	30,63
10,5 V	1556	1164	952	599	341,12	217,57	142,69	122,41	97,34	70,07	56,98	30,05
10,8 V	1418	1073	880	589	331,45	214,34	140,92	119,70	96,31	68,89	56,41	29,47
11.1 V	1245	979	807	555	319,80	205,09	138,53	113,89	94,05	65,98	55,69	28,62