

VALVE REGULATED LEAD ACID BATTERIES – AGM



Nominal Voltage Type 12V
AGM VRLA

Nominal Capacity
10 hours rate 110Ah
5 hours rate 100Ah
1C 80.0Ah
3C 78.5Ah

Weight 31.2kg

Internal Resistance 3.1mΩ@1kHz

Maximum Discharge Current for
5 sec. 1200A
Short Circuit 2400A

Operating Temperature Range
Charge -15°C ÷ 40°C
Discharge -15°C ÷ 50°C
Storage -15°C ÷ 40°C

Charge Retention (shelf life) at 20°C

1 month 98%
3 months 94%
6 months 85%

Charging Methods at 20°C

Max. Charging Current 33A
Charging Voltage
Cycle use: 14.4 ÷ 15.0V
Standby use: 13.5 ÷ 13.8V
Thermal Coeff. Cycle/St.By -5.0/-3.0 mV/°C/cell

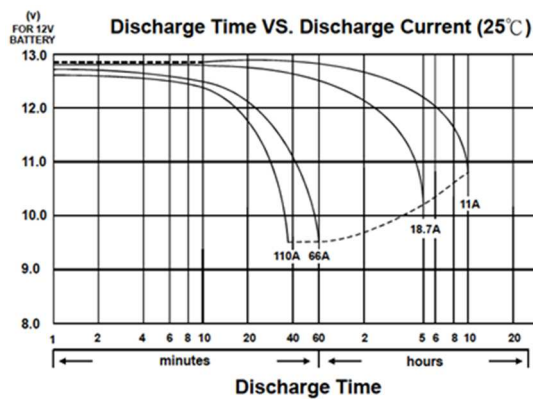
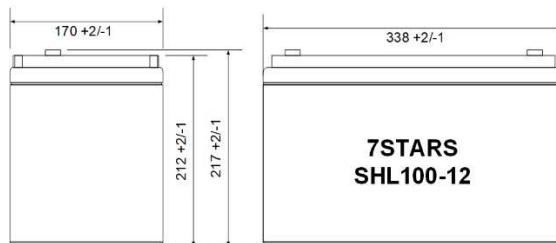
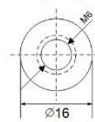
Life expectancy

Cycle Use
100% depth of discharge 250 cycles
50% depth of discharge 600 cycles
30% depth of discharge 1200 cycles
Standby Use 10/12 years Long Life (EUROBAT)

Case Material ABS UL94 HB

Terminal F8 (M6 Bolt)
Torque value (Max.) 7Nm (10Nm)

F8 (M6)



Standards and Certifications: CE, IEC 62056-1, IEC 60896-21-1, IEC 60896-22-1, IEC 61000-6-1, IEC 61000-6-3

Constant Power Discharge Characteristics (25°C) [Watt]

| Cut Off | Time | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|------|
| | 5' | 10' | 15' | 30' | 1H | 1.5H | 2H | 3H | 4H | 5H | 10H | 20H |
| 11.1V | 2 918 | 2 405 | 2 128 | 1 474 | 915 | 675 | 551 | 375 | 312 | 277 | 159 | 77,4 |
| 10.8V | 3 420 | 2 678 | 2 318 | 1 596 | 969 | 706 | 572 | 380 | 317 | 282 | 165 | 80,3 |
| 10.5V | 3 850 | 2 942 | 2 452 | 1 674 | 997 | 723 | 585 | 389 | 320 | 284 | 168 | 81,4 |
| 10.2V | 4 148 | 3 170 | 2 567 | 1 724 | 1 012 | 730 | 590 | 393 | 323 | 286 | 170 | 81,5 |
| 10.0V | 4 272 | 3 235 | 2 600 | 1 745 | 1 016 | 733 | 594 | 397 | 325 | 288 | 171 | 81,7 |
| 9.9V | 4 371 | 3 345 | 2 645 | 1 755 | 1 020 | 735 | 596 | 399 | 326 | 288 | 171 | 81,8 |
| 9.6V | 4 440 | 3 415 | 2 695 | 1 765 | 1 024 | 736 | 597 | 400 | 326 | 289 | 172 | 82,0 |

Due to continuous product improvement, the design and specifications are subject to change without prior notice.