

## 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**

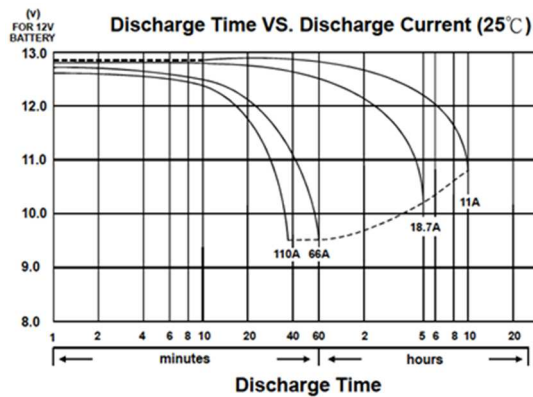
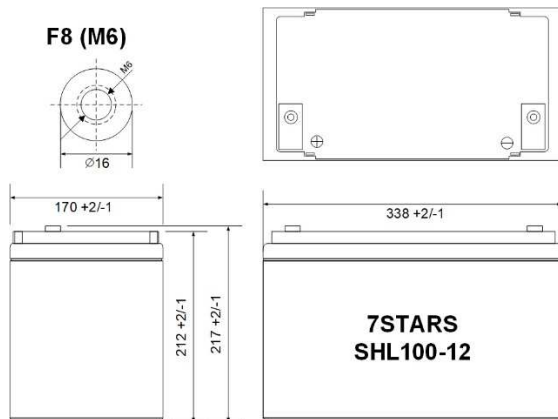
Max. Charging Current 33A  
Charging Voltage  
Cycle use: 14.4 ÷ 15.0V  
Standby use: 13.5 ÷ 13.8V  
Thermal Coeff. Cycle/St.By -5.0/-3.0 mV/°C/cell

**Life expectancy**

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

**Case Material** ABS UL94 HB

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



**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.