

# SHL7

12V VRLA BATTERY



## VALVE REGULATED LEAD ACID BATTERIES – AGM



**Nominal Voltage Type** 12 V  
AGM VRLA

**Nominal Capacity**  
20 hours rate 7Ah  
10 hours rate 6.7Ah  
1C 4.4Ah  
3C 2.8Ah

**Weight** 2.2kg

**Internal Resistance** 19mΩ@1kHz

**Maximum Discharge Current for**  
5 sec. 105A  
Short Circuit 210A

**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 92%  
3 months 90%  
6 months 80%

### Charging Methods at 20°C

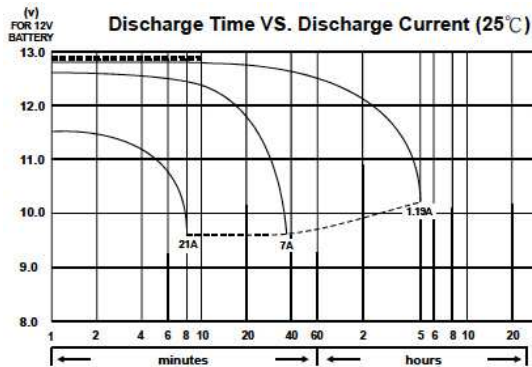
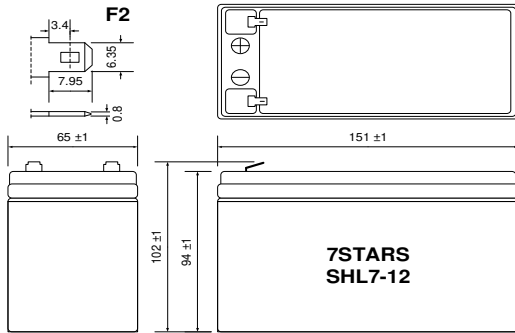
Max. Charging Current 2.1A  
Charging Voltage 14.4 ÷ 15.0V  
Cycle use: 13.5 ÷ 13.8V  
Standby use: 13.5 ÷ 13.8V  
Thermal Coeff. Cycle/St.By -5.0/-3.0 mV/°C/cell

### Life expectancy

**Cycle Use**  
100% depth of discharge 200 cycles  
50% depth of discharge 500 cycles  
30% depth of discharge 1000 cycles  
**Standby Use** 10/12 years Long Life (EUROBAT)

**Case Material** ABS UL94 HB

**Terminal** F2 (wide)



**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	2H	3H	4H	5H	10H	20H
11.1V	263	180	144	72,6	46,2	24,6	18,5	17,1	14,8	8,16	4,14
10.8V	282	191	151	77,4	50,3	27,1	19,9	17,6	15,2	8,40	4,23
10.5V	294	199	155	81,6	51,8	28,3	20,9	18,0	15,5	8,52	4,31
10.2V	306	206	159	84,6	53,2	29,5	21,7	18,3	15,7	8,58	4,37
10.0V	311	209	161	85,8	53,8	29,9	22,0	18,4	15,8	8,64	4,39
9.9V	317	213	164	86,4	54,5	30,4	22,3	18,6	15,9	8,64	4,42
9.6V	326	219	168	87,6	55,4	31,2	22,8	18,9	16,1	8,70	4,46

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