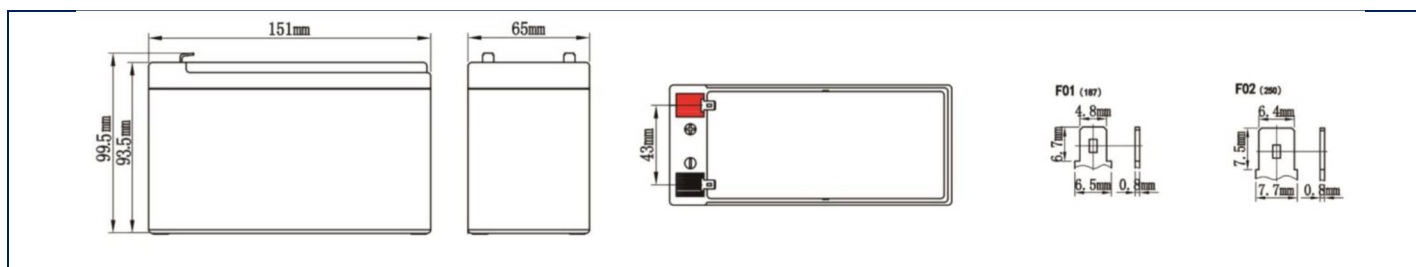


DATASHEET
SLC 7-12
12V 7AH

AGM SEALED VRLA BATTERY
5-6 YEARS OF EXPECTED LIFETIME (EUROBAT)
SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ± 2mm				Weight ± 2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	7AH	151mm	65mm	93.5mm	99.5mm	2kg	105A	≈ 40 mΩ	T1/T2	ABS


CONSTANT-VOLTAGE CHARGE

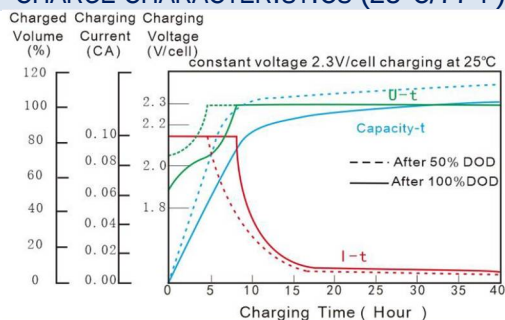
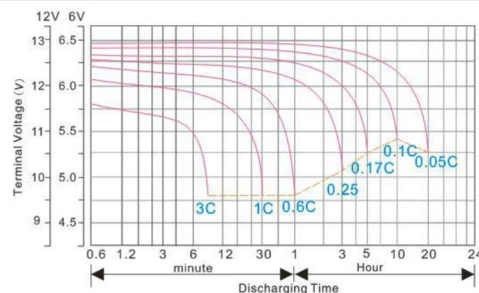
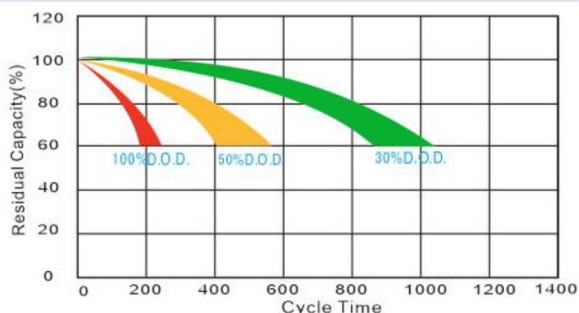
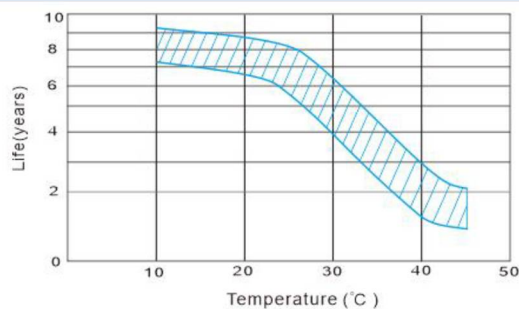
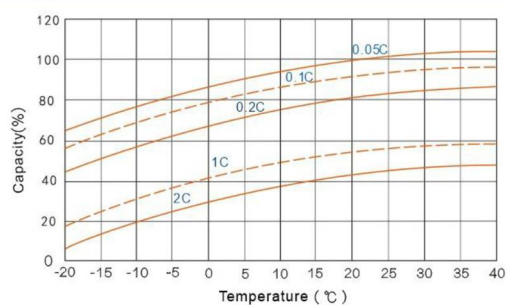
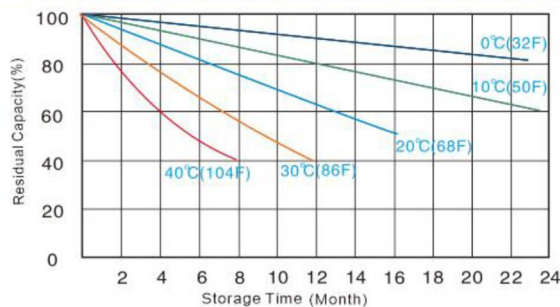
Rated Capacity	
20 hour rate (0.35A)	7.00AH
10 hour rate (0.70A)	6.59AH
5 hour rate (1.19A)	5.80AH
27 min rate (7.0A)	3.50AH
7 min rate (21.0A)	2.45AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°F)	100%
0°C (32°F)	86%

Nominal Operating Temp. Range
25 ± 3°C (77 ± 5°F)

Cycle Application
1. Limit initial current less than 1.75A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.042A for at least 3 hrs.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 1.75A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

Operating Temperature		
Discharge: -15 ÷ 50°C	Charge: 0 ÷ 40°C	Storage: -15 ÷ 40°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

CHARGE CHARACTERISTICS (25°C/77°F)

DISCHARGE CHARACTERISTIC (25°C/77°F)

CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

TEMPERATURE VS FLOAT LIFE

CAPACITY CURVE AT DIFFERENT TEMPERATURE

SELF DISCHARGE CHARACTERISTICS

Constant Current Discharge (Amperes) at 25°C (77°F)

End Voltage (V)	10 min	15 min	30 min	45 min	1 h	1,5 h	2 h	3 h	5 h	8 h	10 h	20 h
9.6V	18.9	14.8	7.54	5.31	4.45	3.55	2.65	2.00	1.28	0.853	0.686	0.367
9.9V	18.0	14.1	7.18	5.13	4.35	3.46	2.58	1.95	1.25	0.836	0.679	0.364
10.2V	17.1	13.4	6.84	4.96	4.24	3.38	2.52	1.90	1.22	0.820	0.672	0.360
10.5V	16.9	13.3	6.78	4.91	4.21	3.32	2.43	1.84	1.19	0.810	0.666	0.356
10.8V	16.7	13.1	6.71	4.86	4.18	3.26	2.33	1.78	1.17	0.800	0.659	0.351

Constant Power Discharge (Watts) at 25°C (77°F)

End Voltage (V)	10 min	15 min	30 min	45 min	1 h	1,5 h	2 h	3 h	5 h	8 h	10 h	20 h
9.6V	224	182	103	72.6	54.2	41.6	31.3	22.3	14.7	10.3	8.14	4.39
9.9V	214	173	97.7	70.2	52.9	40.5	30.5	21.8	14.4	10.1	8.06	4.34
10.2V	203	165	93.0	67.8	51.6	39.6	29.8	21.2	14.0	9.86	7.98	4.30
10.5V	197	160	91.1	66.2	50.8	39.0	29.3	20.8	13.8	9.78	7.86	4.24
10.8V	189	155	88.4	64.6	49.9	38.4	28.9	20.4	13.7	9.68	7.73	4.18