



DATASHEET

SLC 9-12

12V 9AH

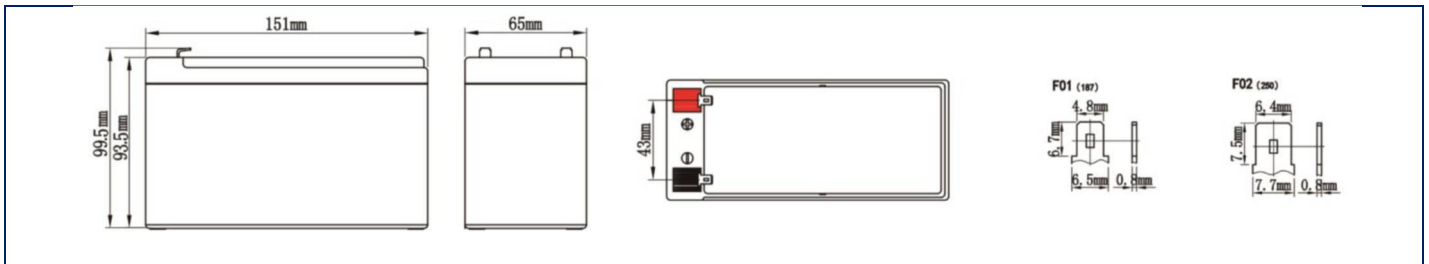
AGM SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 5-6 Years

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±2mm				Weight ±2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	9AH	151mm	65mm	93.5mm	99.5mm	2.55kg	127.5A	≈17 mΩ	T2	ABS



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (0.45A)	9.1AH
10 hour rate (0.9A)	8.36AH
5 hour rate (1.53A)	7.55AH
27 min rate (9A)	4.6AH
7 min rate (27A)	3.7AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

Cycle Application
1. Limit initial current less than 2.25A.
2. Charge until battery voltage (under charge) reaches 14.5V to 14.9V at 25°C(77°F).
3. Hold at 14.5V to 14.9V until current drop to under 0.054A 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 2.25A 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.

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

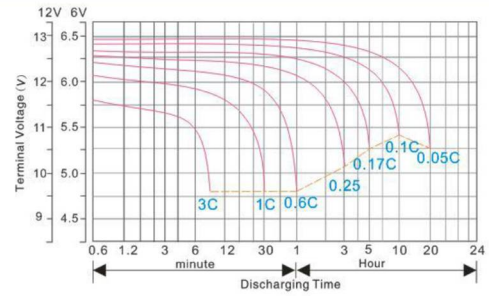
Operating Temperature		
Discharge: -15÷50°C	Charge: 0÷40°C	Storage: -15÷40°C

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)



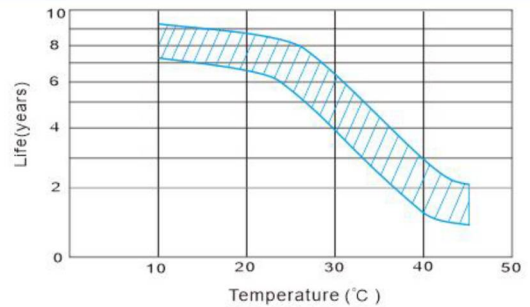
DISCHARGE CHARACTERISTIC (25°C/77°F)



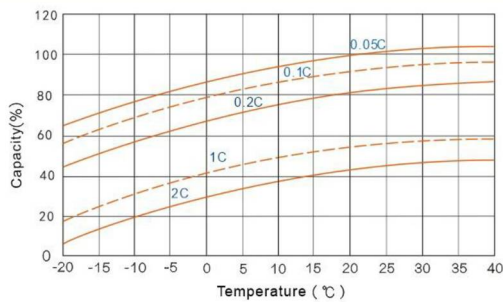
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



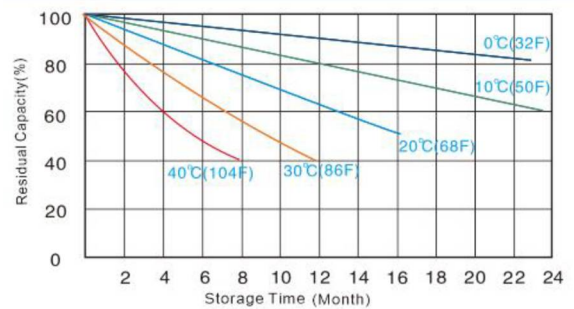
TEMPERATURE VS FLOAT LIFE



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	23.9	18.7	9.61	6.74	5.67	4.53	3.37	2.54	1.63	1.08	0.870	0.459
9.9V	22.8	17.9	9.16	6.51	5.54	4.42	3.29	2.48	1.59	1.06	0.862	0.455
10.2V	21.7	17.0	8.72	6.29	5.40	4.31	3.21	2.42	1.55	1.04	0.853	0.450
10.5V	21.5	16.8	8.59	6.22	5.37	4.23	3.08	2.34	1.51	1.03	0.844	0.455
10.8V	21.3	16.7	8.51	6.15	5.32	4.14	2.96	2.25	1.49	1.02	0.836	0.450

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	288	233	132	93.2	69.5	53.3	40.1	28.6	18.9	13.2	10.4	5.62
9.9V	274	222	125	90.0	67.8	52.0	39.1	27.9	18.4	12.9	10.3	5.57
10.2V	261	211	119	87.0	66.2	50.8	38.2	27.3	18.0	12.7	10.2	5.51
10.5V	252	205	117	85.0	65.1	50.0	37.6	26.6	17.8	12.6	10.1	5.43
10.8V	243	198	114	82.8	64.0	49.3	37.1	26.2	17.6	12.4	9.91	5.36



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