

DATASHEET

**SLC 5-12**

12V 5AH



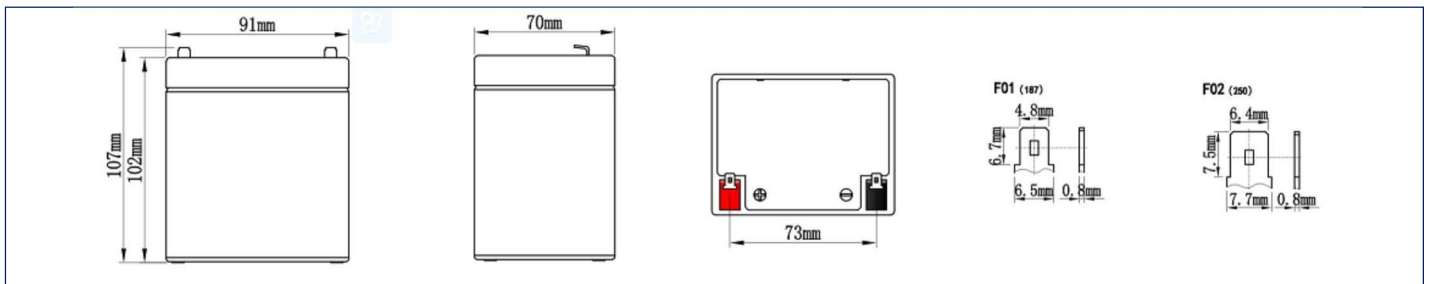
**AGM SEALED VRLA BATTERY**

**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	5AH	91mm	70mm	102mm	107mm	1.5kg	70A	≈35.2 mΩ	T2	ABS



**CONSTANT-VOLTAGE CHARGE**

Rated Capacity	
20 hour rate (0.25A)	5.00AH
10 hour rate (0.50A)	4.75AH
5 hour rate (0.85A)	4.30AH
27 min rate (5.0A)	2.75AH
7 min rate (15.0A)	2.20AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

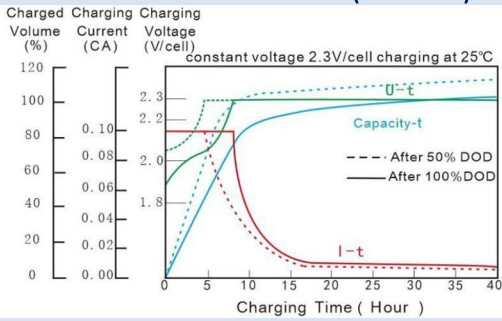
Cycle Application
1. Limit initial current less than 1.25A.
2. Charge until battery voltage (under charge) reaches 14.5V to 14.9V at 25°C(77°F).
3. Hold at 14.5V to 14.9V until current drop to under 0.03A for at least 3 hrs.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 1.25A 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)

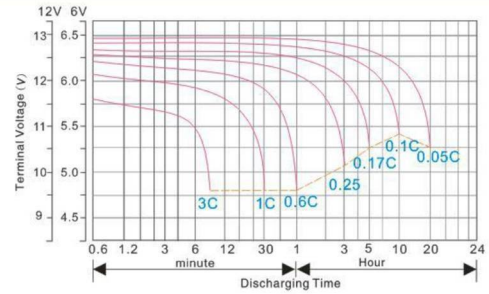
Operating Temperature		
Discharge: -15±50°C	Charge: 0÷40°C	Storage: -15÷40°C

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

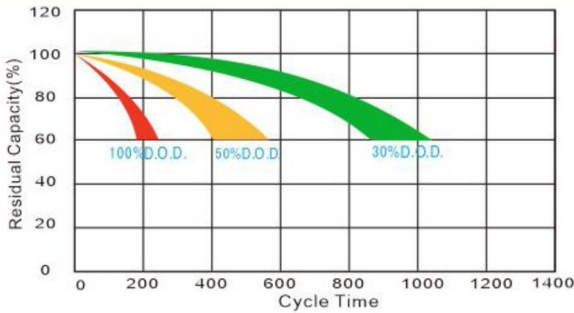
**CHARGE CHARACTERISTICS (25°C/77°F)**



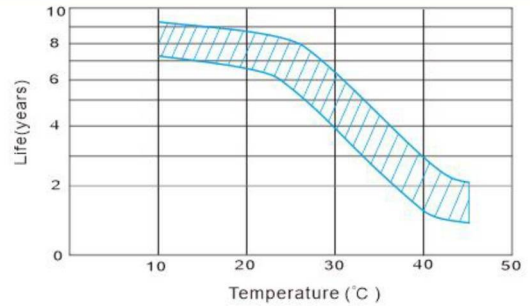
**DISCHARGE CHARACTERISTIC (25°C/77°F)**



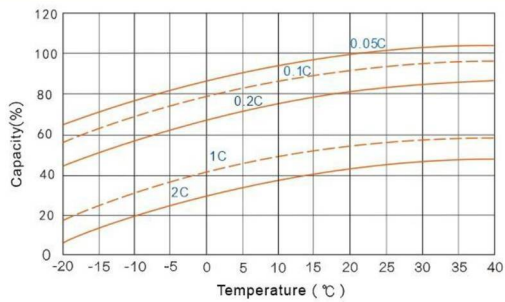
**CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE**



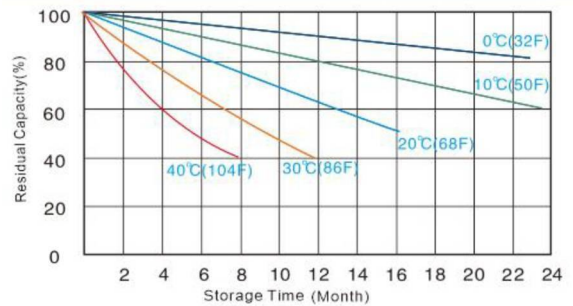
**TEMPERATURE VS FLOAT LIFE**



**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	14.1	11.3	5.78	4.22	3.11	2.54	1.94	1.45	0.914	0.607	0.510	0.270
9.9V	13.5	10.7	5.50	4.08	3.04	2.47	1.90	1.42	0.892	0.595	0.505	0.268
10.2V	12.8	10.2	5.24	3.94	2.96	2.41	1.85	1.38	0.870	0.583	0.500	0.265
10.5V	12.6	9.99	5.09	3.85	2.95	2.38	1.80	1.35	0.860	0.577	0.495	0.260
10.8V	12.3	9.71	4.90	3.68	2.92	2.32	1.71	1.30	0.843	0.572	0.490	0.255

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	167	135	76.2	54.0	40.2	30.9	23.2	16.6	10.9	7.62	6.05	3.26
9.9V	159	128	72.5	52.1	39.3	30.1	22.7	16.2	10.7	7.47	5.99	3.22
10.2V	151	122	69.1	50.4	38.3	29.4	22.1	15.8	10.4	7.32	5.93	3.19
10.5V	146	119	67.7	49.2	37.7	29.0	21.8	15.4	10.3	7.27	5.83	3.15
10.8V	141	115	65.7	48.0	37.1	28.5	21.5	15.2	10.2	7.19	5.74	3.10



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