



DATASHEET

SLC 33-12

12V 33AH

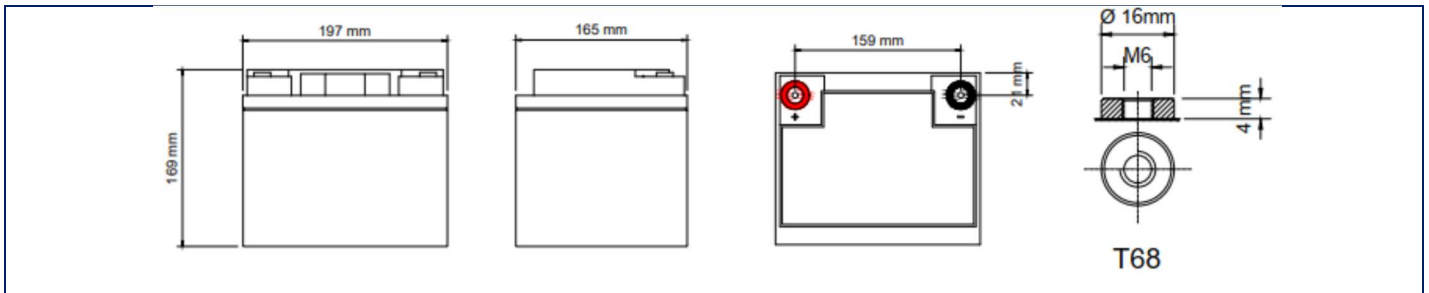
AGM SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 10-12 Years – Long Life

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	33AH	196mm	130mm	154mm	166mm	10kg	495A	≈8 mΩ	M6	ABS



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (1.65A)	34.4AH
10 hour rate (3.30A)	33.0AH
5 hour rate (5.61A)	27.55AH
27 min rate (33A)	17.5AH
7 min rate (99A)	11.55AH
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 8.25A.
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 0.198A 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 7.75A 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.

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

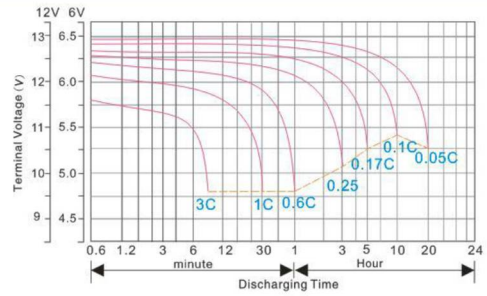
Operating Temperature		
Discharge: -15÷50°C	Charge: 0÷40°C	Storage: -15÷40°C

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

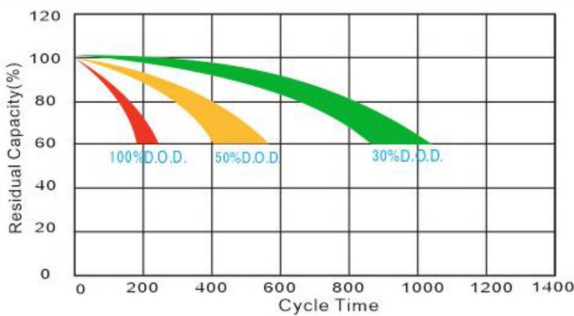
CHARGE CHARACTERISTICS (25°C/77°F)



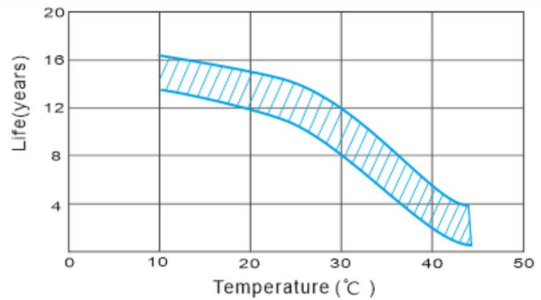
DISCHARGE CHARACTERISTIC (25°C/77°F)



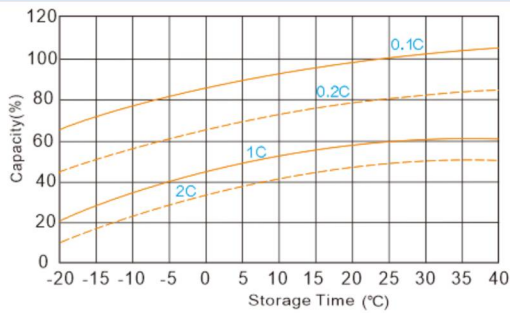
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



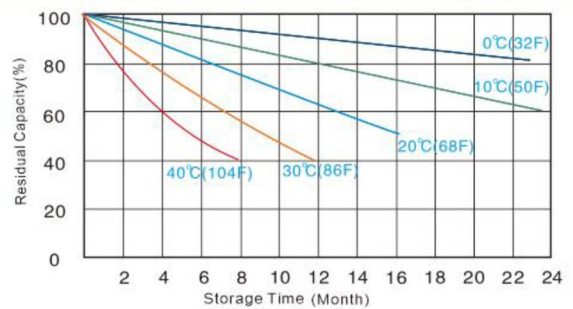
TEMPERATURE VS FLOAT LIFE



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	88.2	69.1	35.3	24.9	20.9	16.5	12.2	9.26	5.98	3.96	3.42	1.77
9.9V	84.0	65.8	33.6	24.0	20.4	16.1	11.9	9.03	5.83	3.89	3.38	1.76
10.2V	80.0	62.7	32.0	23.2	19.9	15.8	11.6	8.81	5.69	3.81	3.35	1.74
10.5V	79.2	62.0	31.7	23.1	19.8	15.5	11.2	8.54	5.58	3.77	3.32	1.72
10.8V	78.3	61.4	31.5	23.0	19.7	15.3	10.8	8.26	5.47	3.73	3.30	1.69

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	1053	852	482	341	254	195	147	105	69.0	48.2	38.2	20.6
9.9V	1003	812	459	329	248	190	143	102	67.4	47.2	37.8	20.4
10.2V	955	773	437	318	242	186	140	99.7	65.7	46.3	37.5	20.2
10.5V	923	750	428	311	238	183	138	97.5	65.0	45.9	36.9	19.9
10.8V	889	726	415	303	234	180	136	95.8	64.2	45.4	36.3	19.6



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