



DATASHEET

CL 2-200

2V 200AH

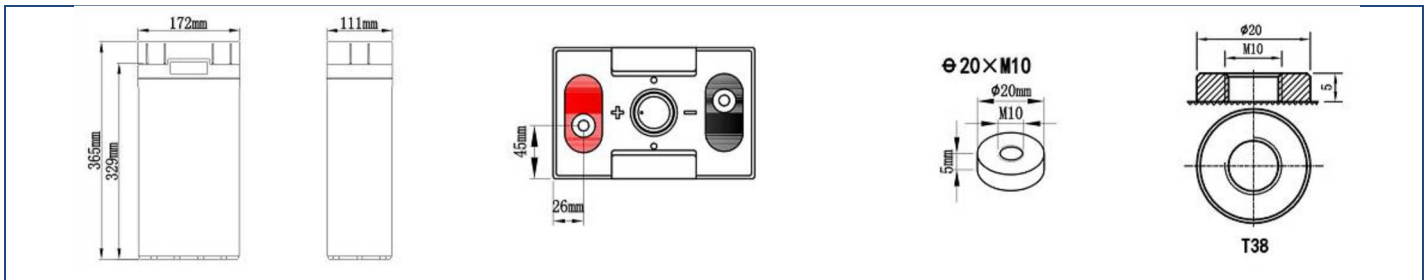
AGM SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 15 Years – Very Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±3mm				Weight ±2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
2V	200AH	172mm	111mm	329mm	365mm	13,1kg	-	≈0.81 mΩ	M10	ABS



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (10A)	212.0AH
10 hour rate (20A)	202.0AH
5 hour rate (34A)	177.0AH
3 hour rate (50A)	157.5AH
1 hour rate (120A)	125.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

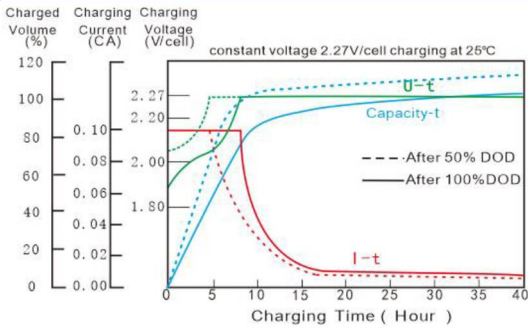
Cycle Application
1. Limit initial current less than 40A.
2. Charge until battery voltage (under charge) reaches 2.30V to 2.35V at 25°C(77°F).
3. Hold at 2.30V to 2.35V until current drop to under 1.2A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -5mV/°C.
Standby Service
1. Hold battery across constant voltage source of 2.26 to 2.28 volts with current limit 40A 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 -3mV/°C.

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

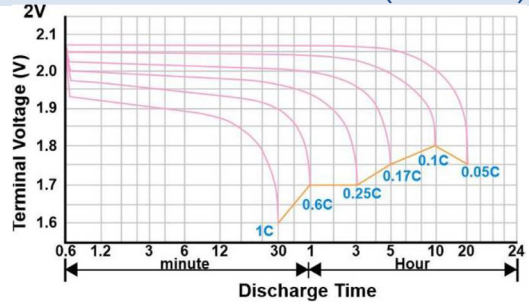
Operating Temperature
Wide operating temperature range from 0°C~40°C

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

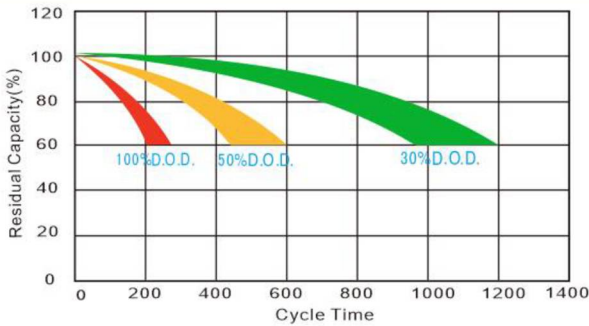
CHARGE CHARACTERISTIC (25°C/77°F)



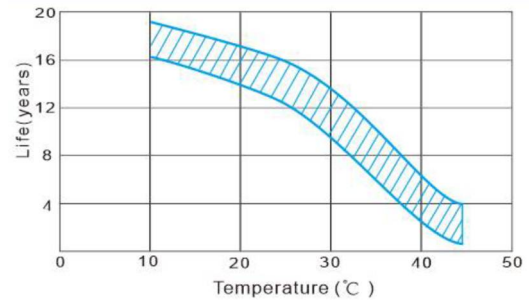
DISCHARGE CHARACTERISTIC (25°C/77°F)



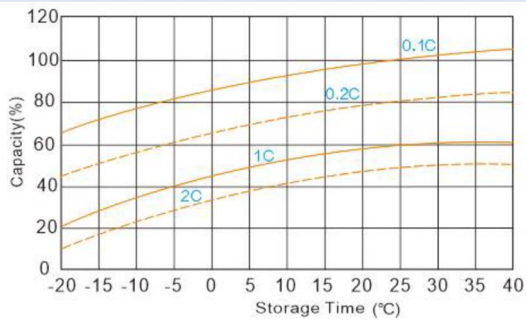
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



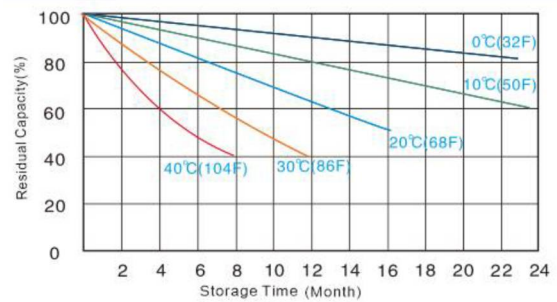
TEMPERATURE VS FLOAT LIFE



CAPACITY CURVE AT DIFFERENT TEMPERATURE



SELF DISCHARGE CHARACTERISTICS



Battery Discharge Table

End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)												
1.60V	420	384	246	172	125	101	85	55.6	38.0	27.5	21.0	10.9
1.65V	400	366	234	166	121	99	83	54.5	37.2	26.9	20.8	10.8
1.70V	382	347	222	160	119	96	81	52.5	36.2	26.5	20.6	10.7
1.75V	364	331	212	156	115	94	79	51.5	35.4	25.9	20.4	10.6
1.80V	345	315	202	149	113	92	77	50.5	34.5	25.5	20.2	10.5
Constant Power Discharge Data Sheet (Watt at 25°C)												
1.60V	790	721	406	329	253	170	158	92	72	54.5	43.8	24.6
1.65V	753	687	386	317	246	166	154	89	70	53.5	43.4	24.4
1.70V	717	654	368	307	240	162	149	87	68	52.5	43.0	24.0
1.75V	683	624	349	297	234	158	145	85	67	51.5	42.6	23.8
1.80V	650	594	333	287	228	156	143	83	65	50.5	42.2	23.6



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