



DATASHEET

CL 2-800

2V 800AH

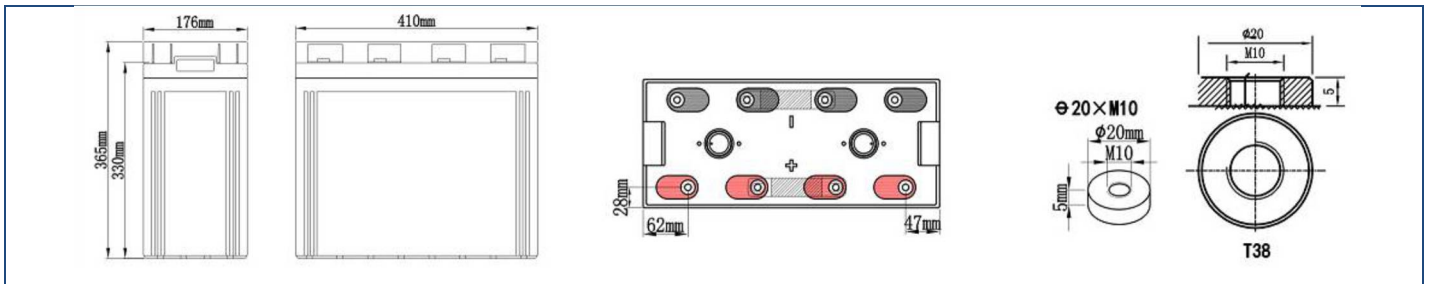
AGM SEALED VRLA BATTERY

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	800AH	410mm	176mm	330mm	365mm	49,0kg	-	≈0.38 mΩ	M10	ABS



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (15A)	848AH
10 hour rate (30A)	808AH
5 hour rate (51A)	705AH
3 hour rate (75A)	636AH
1 hour rate (180A)	501AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

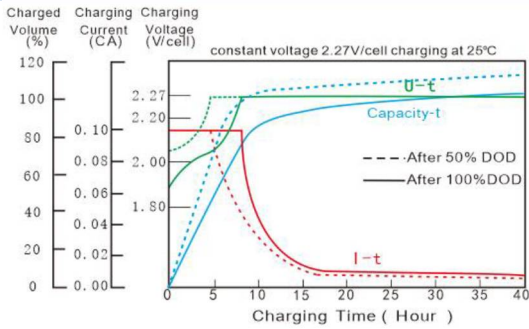
Cycle Application
1. Limit initial current less than 160A.
2. Charge until battery voltage (under charge) reaches 2.30V to 2.35V at 25°C(77°F).
3. Hold at 2.30V to 2.35V until current drop to under 4.8A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -5mV/°C.
Standby Service
1. Hold battery across constant voltage source of 2.26 to 2.28 volts with current limit 160A 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)

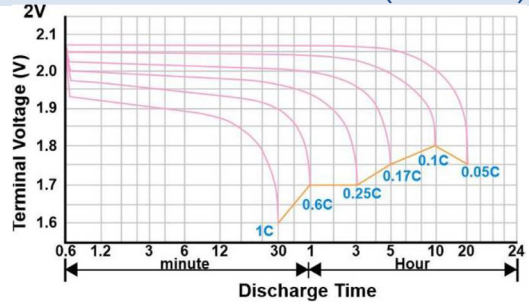
Operating Temperature
Wide operating temperature range from 0°C ~ 40°C

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

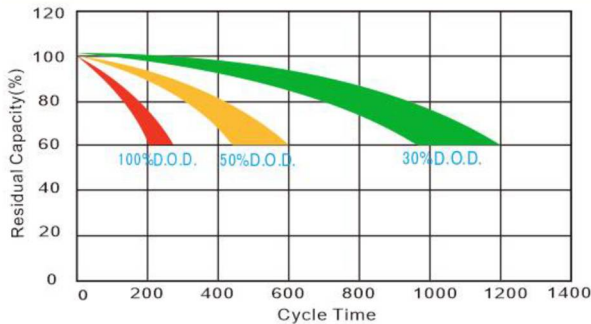
CHARGE CHARACTERISTIC (25°C/77°F)



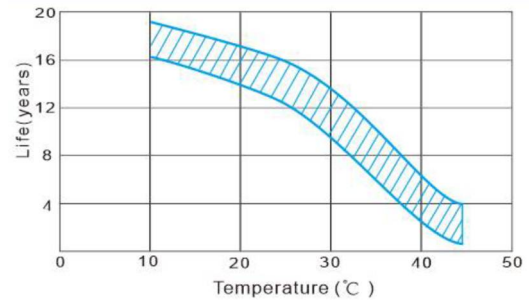
DISCHARGE CHARACTERISTIC (25°C/77°F)



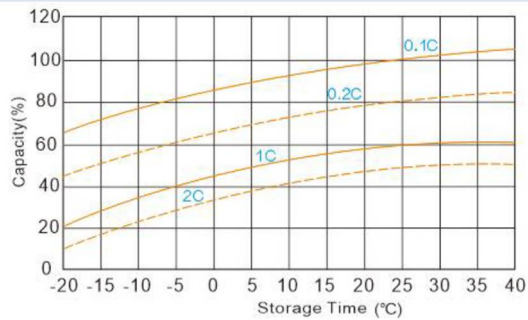
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



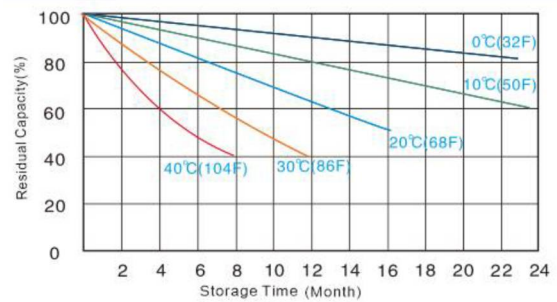
TEMPERATURE VS FLOAT LIFE



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	1681	1535	986	687	501	405	337	222	152	110	84.1	43.7
1.65V	1600	1462	937	663	485	395	329	216	148	107	83.2	43.3
1.70V	1527	1390	889	638	477	386	321	212	144	106	82.4	42.8
1.75V	1454	1325	848	622	461	376	313	206	141	103	81.6	42.4
1.80V	1382	1260	808	598	452	367	306	201	138	102	80.8	42.0
Constant Power Discharge Data Sheet (Watt at 25°C)												
1.60V	3159	2885	1624	1317	1010	679	630	366	285	219	176	98.6
1.65V	3014	2747	1543	1269	986	663	614	358	279	214	174	97.8
1.70V	2868	2618	1471	1228	962	646	598	348	272	210	172	96.2
1.75V	2731	2497	1398	1188	937	630	582	339	265	206	171	95.3
1.80V	2602	2376	1333	1147	913	622	574	331	259	202	169	94.5



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