



DATASHEET

CL 2-300

2V 300AH

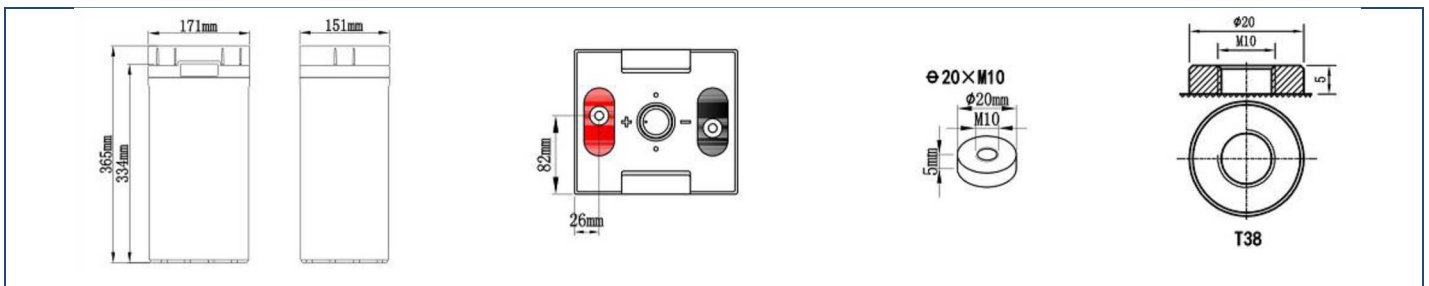
AGM SEALED VRLA BATTERY

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	300AH	171mm	151mm	334mm	365mm	18,8kg	-	≈0.63 mΩ	M10	ABS



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (15A)	320.0AH
10 hour rate (30A)	303.0AH
5 hour rate (51A)	270.0AH
3 hour rate (75A)	240.0AH
1 hour rate (180A)	188.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

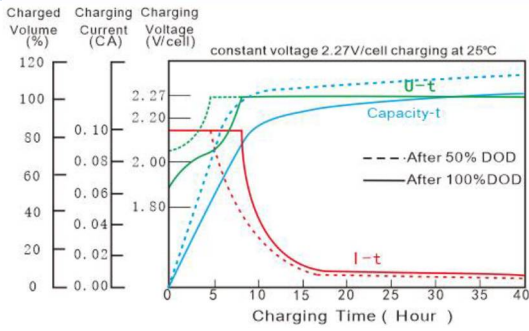
Cycle Application
1. Limit initial current less than 60A.
2. Charge until battery voltage (under charge) reaches 2.30V to 2.35V at 25°C(77°F).
3. Hold at 2.30V to 2.35V until current drop to under 1.8A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -5mV/°C.
Standby Service
1. Hold battery across constant voltage source of 2.26 to 2.28 volts with current limit 60A 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)

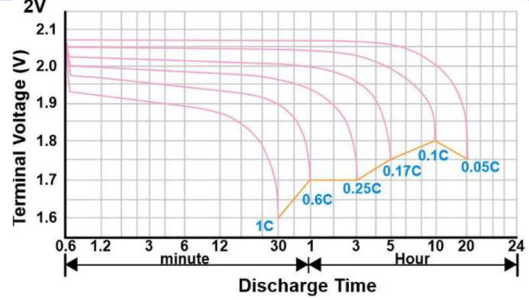
Operating Temperature
Wide operating temperature range from 0°C~40°C

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

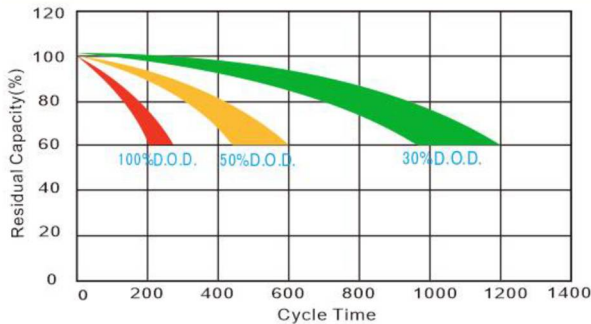
CHARGE CHARACTERISTIC (25°C/77°F)



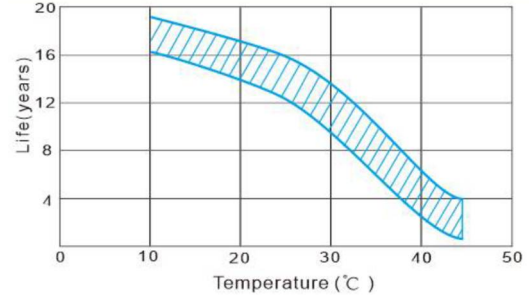
DISCHARGE CHARACTERISTIC (25°C/77°F)



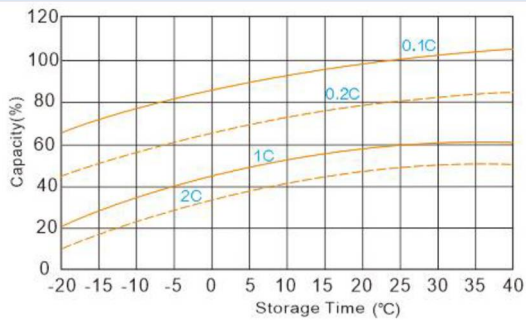
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



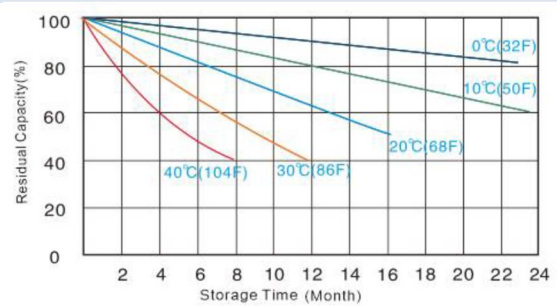
TEMPERATURE VS FLOAT LIFE



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	630	576	370	258	188	152	126	84	57	41.2	31.5	16.4
1.65V	600	548	351	248	182	148	123	81	56	40.3	31.2	16.3
1.70V	573	521	333	239	179	144	120	80	55	39.7	30.9	16.1
1.75V	545	497	318	233	173	141	117	78	54	38.8	30.6	16.0
1.80V	518	473	303	224	170	137	115	76	52	38.2	30.3	15.8
Constant Power Discharge Data Sheet (Watt at 25°C)												
1.60V	1185	1082	609	494	379	255	236	137	107	82	65.8	37.0
1.65V	1130	1030	579	476	370	248	230	134	105	81	65.1	36.7
1.70V	1076	982	551	461	361	242	224	130	102	79	64.5	36.1
1.75V	1024	936	524	445	351	236	218	127	99	78	63.9	35.8
1.80V	976	891	500	430	342	233	215	124	97	76	63.3	35.5



ENERPOWER S.R.L.

UFFICI e DEPOSITO: Via Boccioni, 7 - 20900 MONZA (MB)

Tel. +39 (039)-832152 Fax +39 (039)-2230441 E-mail : info@enerpowersrl.com - <https://www.enerpowersrl.com>