



## DATASHEET

# CL 2-400

## 2V 400AH

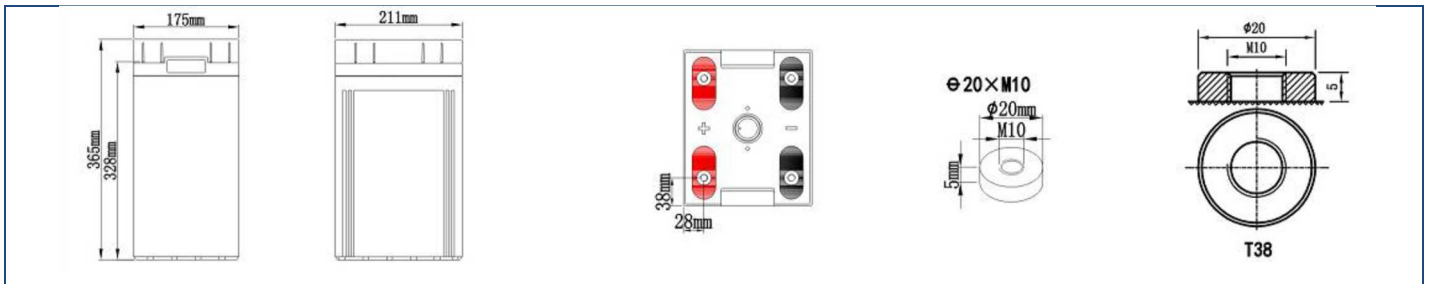
**AGM SEALED VRLA BATTERY**

**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	400AH	211mm	175mm	328mm	365mm	26,0kg	-	≈0.62 mΩ	M10	ABS



### CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (15A)	424AH
10 hour rate (30A)	404AH
5 hour rate (51A)	355AH
3 hour rate (75A)	318AH
1 hour rate (180A)	250AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

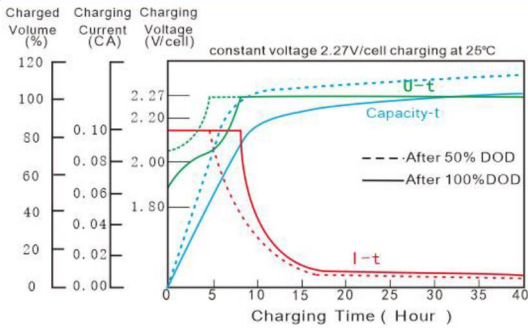
Cycle Application
1. Limit initial current less than 80A.
2. Charge until battery voltage (under charge) reaches 2.30V to 2.35V at 25°C(77°F).
3. Hold at 2.30V to 2.35V until current drop to under 2.4A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -5mV/°C.
Standby 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)

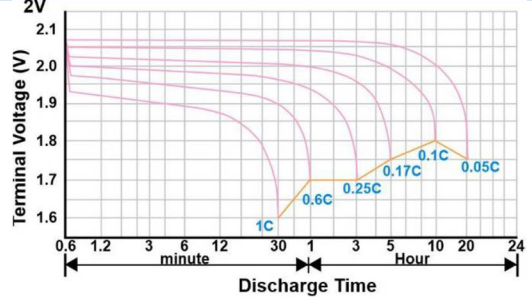
Operating Temperature
Wide operating temperature range from 0°C~40°C

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

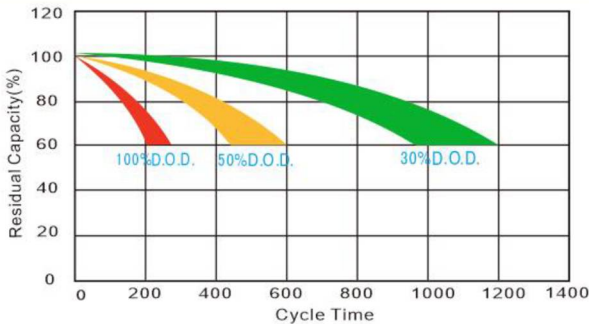
### CHARGE CHARACTERISTIC (25°C/77°F)



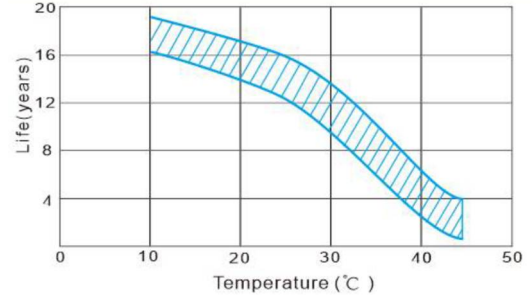
### DISCHARGE CHARACTERISTIC (25°C/77°F)



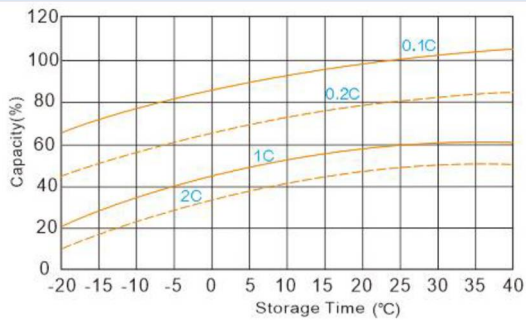
### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



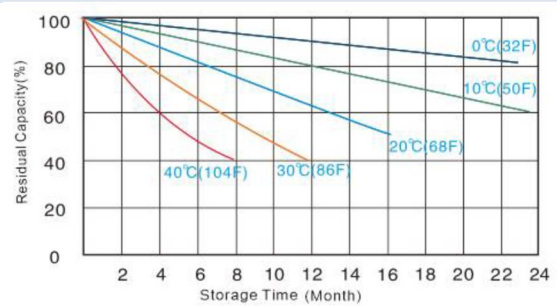
### TEMPERATURE VS FLOAT LIFE



### 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
<b>Constant Current Discharge Data Sheet (Amperes at 25°C)</b>												
1.60V	840	768	493	343	250	202	169	111	76	55	42.0	21.8
1.65V	800	731	469	331	242	198	165	108	75	54	41.6	21.6
1.70V	764	695	444	319	238	193	161	106	73	53	41.2	21.4
1.75V	727	663	424	311	230	188	157	103	71	52	40.8	21.2
1.80V	691	630	404	299	226	184	154	101	69	51	40.4	21.0
<b>Constant Power Discharge Data Sheet (Watt at 25°C)</b>												
1.60V	1580	1442	812	659	505	339	315	183	142	109	88	49.3
1.65V	1507	1374	772	634	493	331	307	179	139	107	87	48.9
1.70V	1434	1309	735	614	481	323	299	174	135	105	86	48.1
1.75V	1366	1248	699	594	469	315	291	170	132	103	85	47.7
1.80V	1301	1188	667	574	457	311	287	166	129	101	84	47.3



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