

# CE200-12 ▶ 12V 200AH

SMF VRLA RECHARGEABLE BATTERY



## APPLICATIONS

- ✓ UPS Systems
- ✓ Central Battery Systems
- ✓ Security Systems
- ✓ Hospital & Laboratories
- ✓ Banks, Finance & Data Centers

## COMPLIANCE

- ✓ IEC 60896 – 21
- ✓ IEC 60896 – 22
- ✓ IEC 61427 – 1:2013

## QUALITY STANDARDS

Manufactured in best-in-class facility certified to

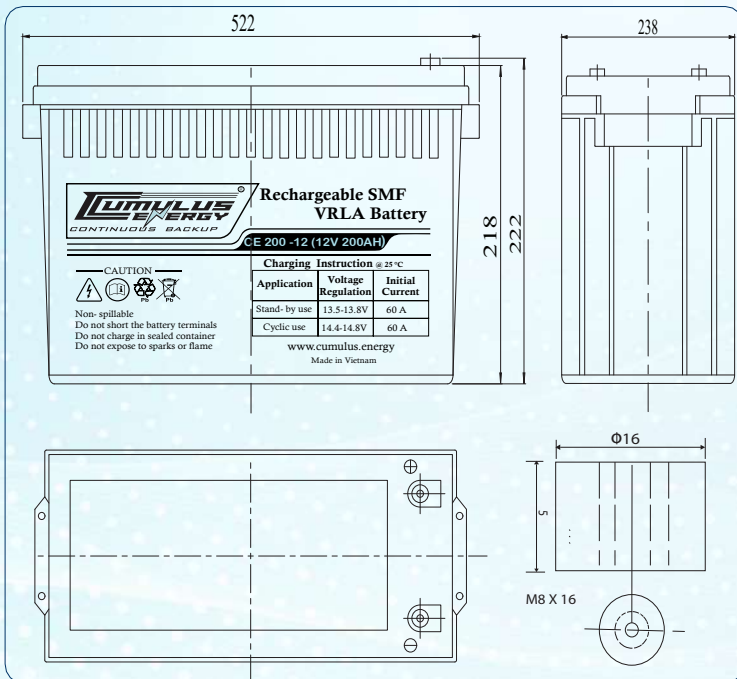
- ✓ ISO 9001: 2015
- ✓ ISO 14001: 2015
- ✓ OHSAS 45001: 2018

## TECHNICAL FEATURES

- ✓ Non-Spillable Sealed Construction
- ✓ Sealed Lead Acid Battery
- ✓ AGM, ABS, Gas Recombination
- ✓ Venting System for low internal pressure
- ✓ Low Self-Discharge & High-Power Output
- ✓ Heavy-Duty, Highly Optimized Grids
- ✓ Maintenance-Free Operation

## CHARACTERISTICS

Nominal Voltage	12 V	
Capacity 25°C (77°F)	10 Hour rate	200Ah
	3 Hour rate	151Ah
	1 Hour rate	115Ah
Internal Resistance (25°C, 100% Charge)	Approx. 3.5m Ω	
Self-Discharge (25°C)	3 Months	Remaining Capacity 91%
	6 Months	Remaining Capacity 82%
Operating Temperature	Discharge	-15°C to 50°C
	Charge	-10°C to 50°C
	Storage	-20°C to 50°C
Nominal Operating Temperature	≤ 25°C (77°F)	
Maximum Discharge current	1400A (5sec)	
Maximum Charging current	60A	
Charge Methods	13.50 to 13.80 V	
Constant Voltage Charge 77°F (25°C) - Standby Use	Temp. Compensation -18mV/°C	
Charge methods	14.40 to 14.80V	
Constant Voltage Charge 77°F (25°C) - Cycle use	Temp. Compensation -30mV/°C	
Design Life	10 -12 Years	



## DIMENSION

Length	Width	Height	Total Height	Weight (kg)
522 mm	238 mm	218 mm	222 mm	59.5 kg

## CONSTANT CURRENT DISCHARGE (Amperes) AT 25°C

End Cell Voltage (ECV)	DURATION								
	15min	30min	1h	2h	3h	5h	6h	10h	20h
1.60	337	202	125	73.2	52.7	35.9	31.3	20.8	10.9
1.65	329	198	123	72.7	52.4	35.8	31.0	20.7	10.9
1.70	317	192	120	72.1	52.2	35.5	30.8	20.7	10.8
1.75	306	187	115	70.9	51.8	35.3	30.8	20.6	10.8
1.80	289	179	112	69.2	50.4	34.2	29.8	20.0	10.6

## CONSTANT POWER DISCHARGE (Watts) AT 25°C

End Cell Voltage (ECV)	DURATION								
	15min	30min	1h	2h	3h	5h	6h	10h	20h
1.60	614.8	375.8	234.8	103.1	70.6	40.50	21.50	614.8	375.8
1.65	600.2	368.3	231.3	102.5	70.3	40.50	21.50	600.2	368.3
1.70	578.0	357.0	225.5	101.8	69.8	40.33	21.50	578.0	357.0
1.75	560.0	348.5	218.3	101.1	69.3	40.00	21.33	560.0	348.5
1.80	528.8	335.7	211.3	98.17	67.3	39.83	21.17	528.8	335.7

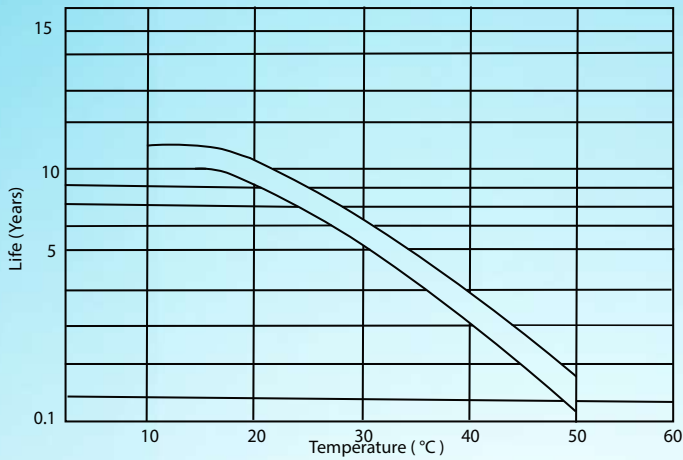


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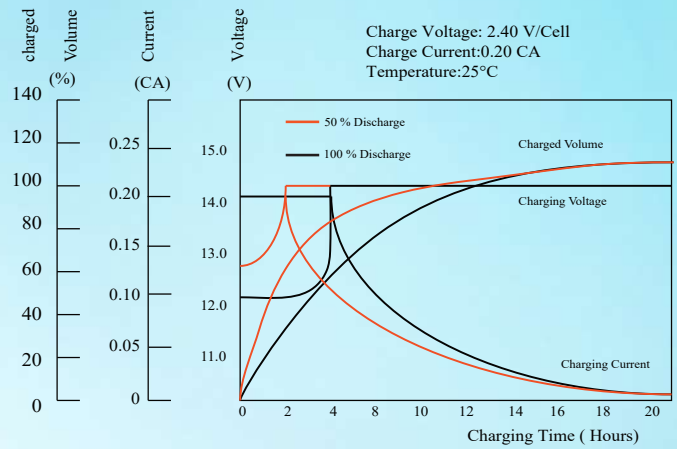
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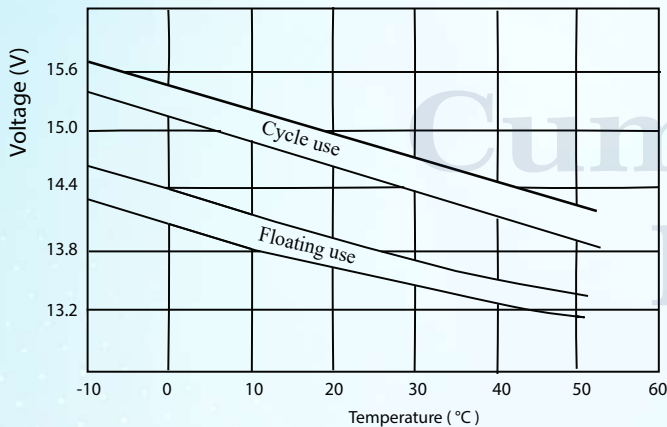
Float life vs Temperature



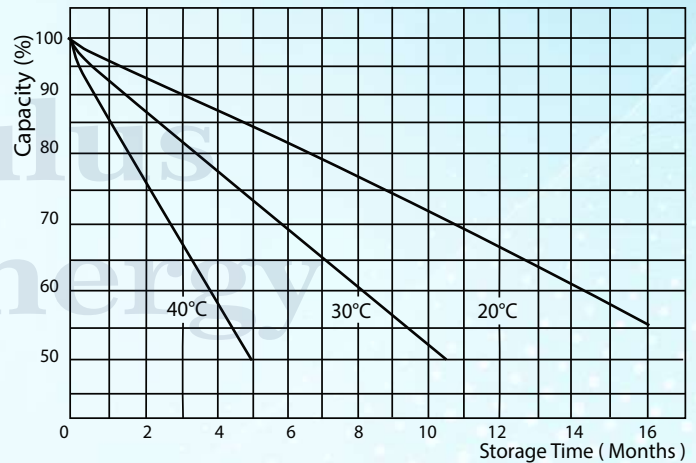
Charging Characteristics ( 25°C)



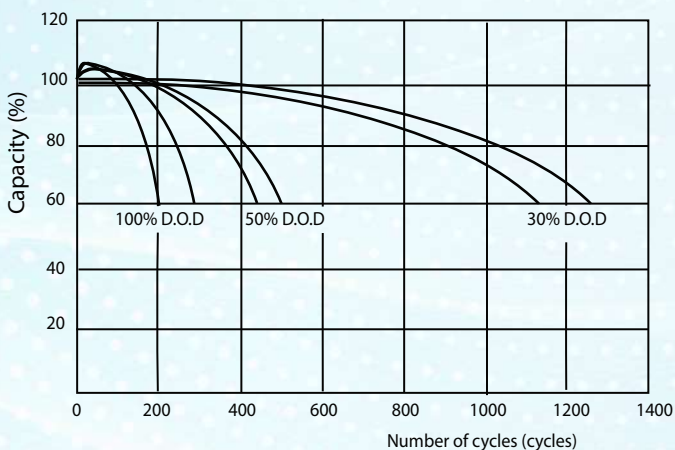
Recommended charging voltage vs temperature



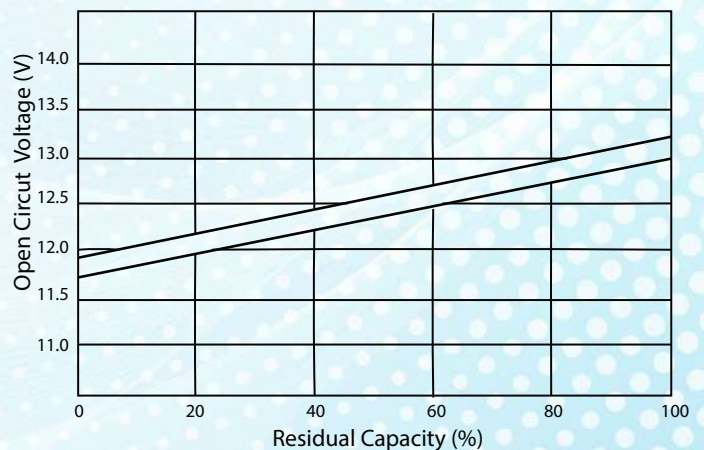
Self-discharge Characteristics



Cycle life vs D.O.D (25°C)



Open Circuit Voltage (V) vs Capacity (25°C)



\*\*Standards, Specifications and design are subject to change without notice.