

CE150-12 ▶ 12V 150AH

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

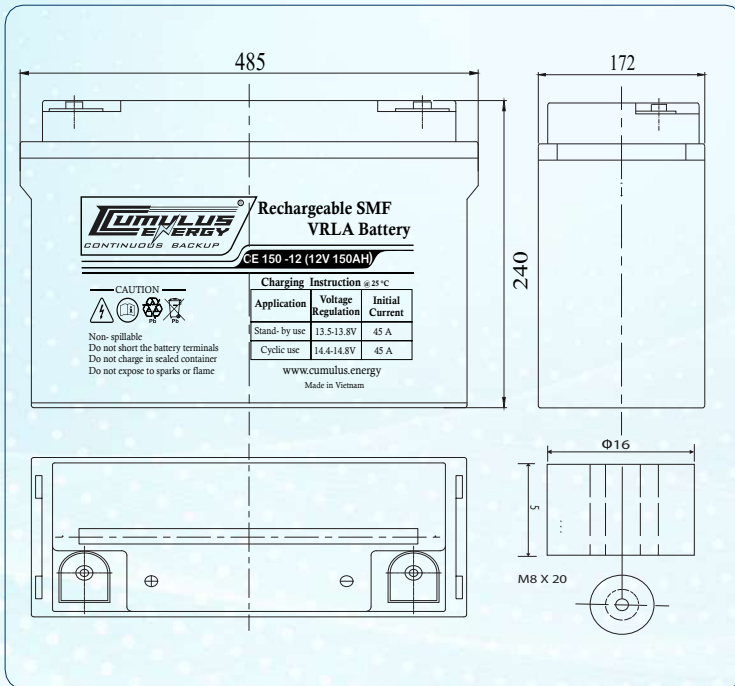
- ✓ ISO 9001: 2015
- ✓ ISO 14001: 2015
- ✓ OHSAS 45001: 2018

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	150Ah
	3 Hour rate	112.8Ah
	1 Hour rate	86.3Ah
Internal Resistance (25°C, 100%Charge)	Approx.4m 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	1200A (5sec)	
Maximum Charging current	45A	
Charge Methods Constant Voltage Charge 77°F (25°C) - Standby Use	13.50 to 13.80 V	
	Temp. Compensation -18mV/°C	
Charge methods Constant Voltage Charge 77°F (25°C) - Cycle use	14.40 to 14.80V	
	Temp. Compensation -30mV/°C	
Design Life	10-12 Years	



DIMENSION

Length	Width	Height	Total Height	Weight (kg)
485 mm	172 mm	240 mm	240 mm	41.8 kg

CONSTANT CURRENT DISCHARGE (Amperes) AT 25°C

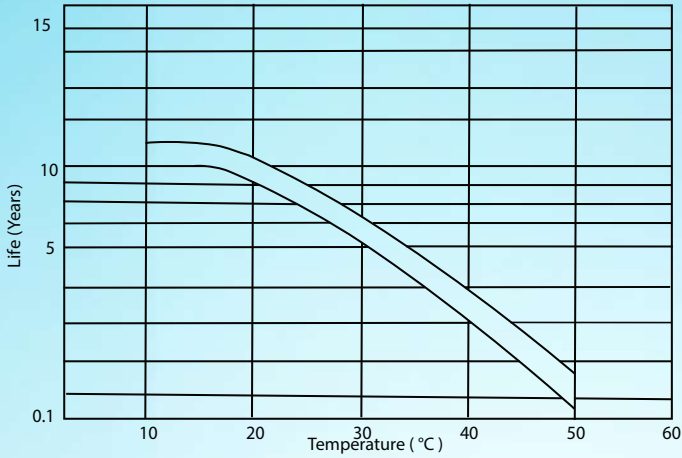
End Cell Voltage (ECV)	DURATION								
	10min	15min	30min	1h	2h	3h	5h	10h	20h
1.60	328	253	152	92.8	54.9	39.6	26.9	15.3	8.09
1.65	318	247	149	91.4	54.6	39.3	26.9	15.2	8.08
1.70	305	238	144	89.1	54.1	39.9	26.7	15.2	8.06
1.75	292	229	141	86.3	53.3	38.8	26.5	15.1	8.02
1.80	276	218	136	83.5	51.9	37.6	25.4	15.0	7.94

CONSTANT POWER DISCHARGE (Watts) AT 25°C

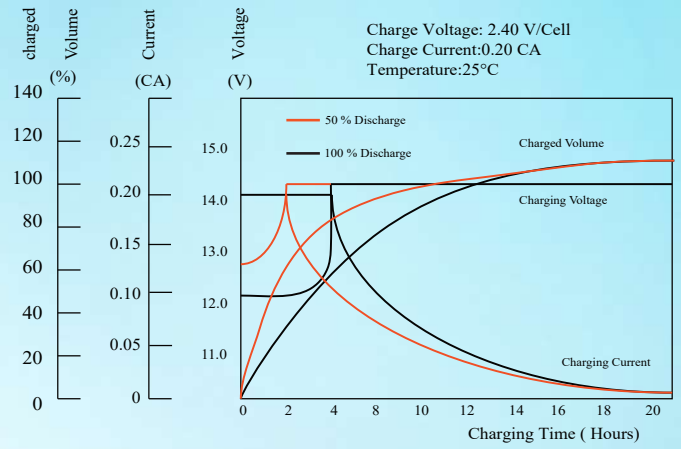
End Cell Voltage (ECV)	DURATION								
	10min	15min	30min	1h	2h	3h	5h	10h	20h
1.60	588.7	461.2	281.8	176.1	105.8	77.33	53.00	30.33	16.18
1.65	571.0	450.2	276.3	173.5	105.1	76.83	52.67	30.33	16.15
1.70	547.3	433.5	267.8	169.1	104.1	76.33	52.33	30.17	16.10
1.75	523.8	418.7	261.3	163.8	102.6	75.83	52.00	30.00	16.02
1.80	494.5	396.7	251.7	158.5	100.0	73.50	50.50	29.83	15.90



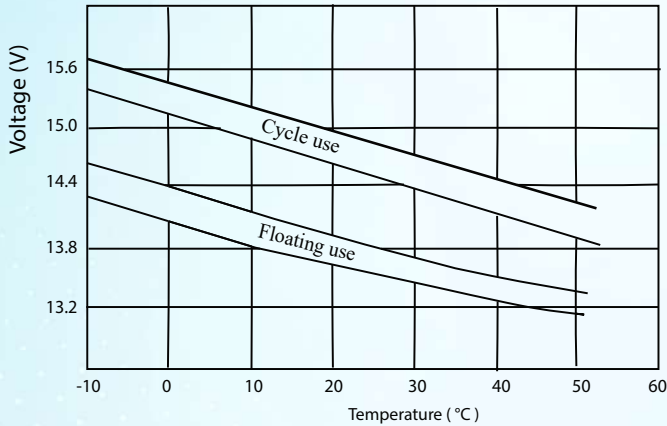
Float life vs Temperature



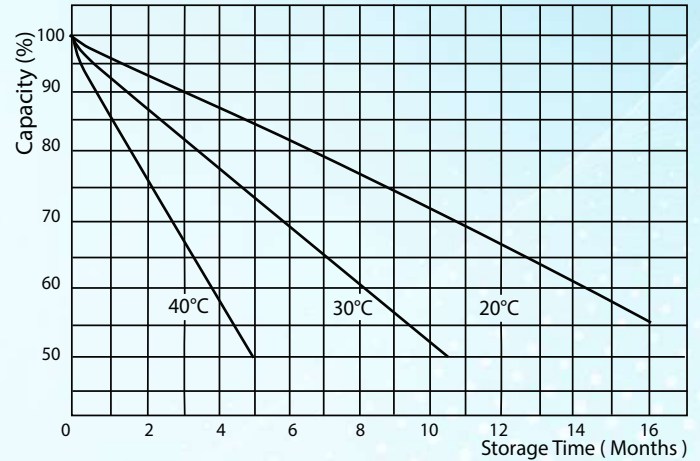
Charging Characteristics (25°C)



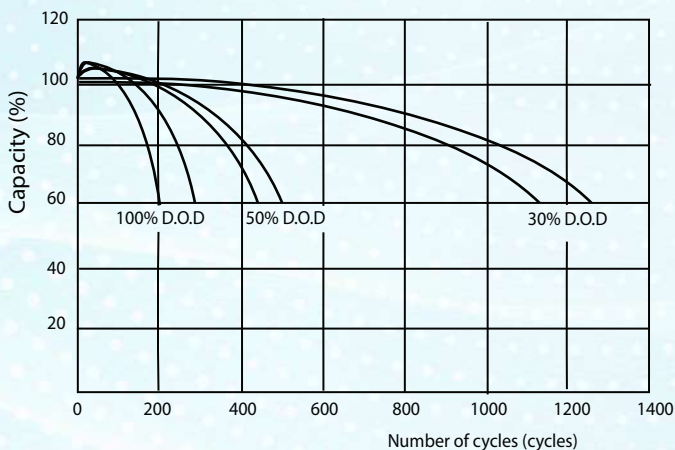
Recommended charging voltage vs temperature



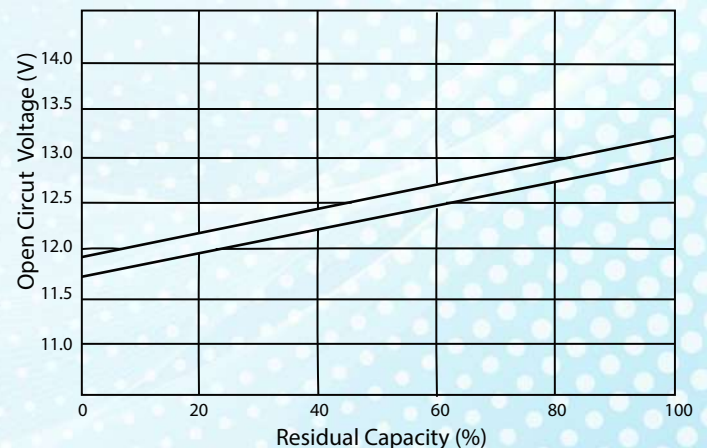
Self-discharge Characteristics



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.