

# CROWN®

THE POWER OF 1

SEALED POWER | MAINTENANCE FREE | AGM BATTERY

## 12CE100

### SEALED VALVE REGULATED LEAD ACID BATTERY



- ▶ Sealed Valve Regulated AGM Battery Technology
- ▶ Maintenance-Free, Spillproof and Approved for Air Transport (U.S. D.O.T. / F.A.A. / I.A.T.A. / C.A.B. Approved)
- ▶ Robust Design Protects from Vibration, Impact and Severe Service Applications
- ▶ Powerful Combination of High-Performance, Long-Life Design, and Reliability
- ▶ UL Recognized and ISO-9001:2015 Certified for Safety and Dependability

## ELECTRICAL SPECIFICATIONS

**NOMINAL VOLTAGE:** 12 VOLTS

## NOMINAL CAPACITY

**20 HR:** 100 Ah

**10 HR:** 95 Ah

**5 HR:** 80 Ah

**RC MINUTES:** 170 Minutes / 25 A

**INTERNAL RESISTANCE:** 5.0 mΩ

**MAX DISCHARGE CURRENT:** 1200 A (5 Sec)

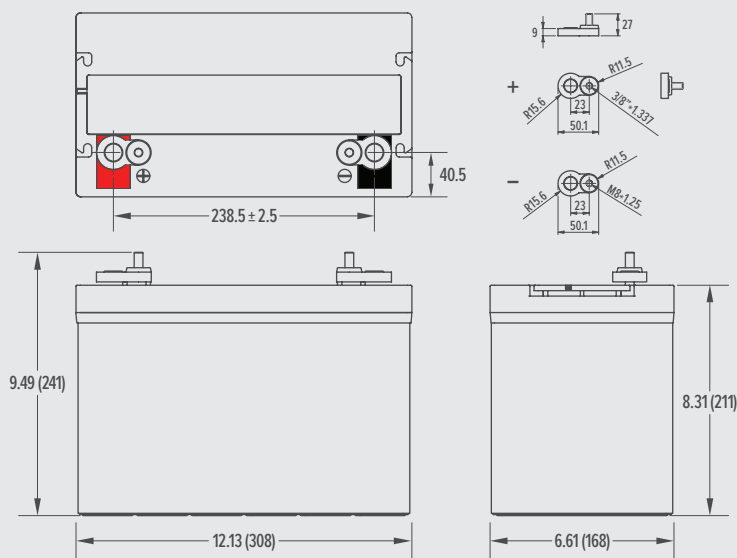
## TERMINAL STYLE: LPT



## TORQUE SPECIFICATION:

100 – 120 IN-LBS

11 – 14 NM



**LENGTH:** 12.13 (308) **TOLERANCE SPEC:** +/- 0.04 in +/- 1 mm

**WIDTH:** 6.61 (168) **CASE MATERIAL:** ABS PLASTIC

**HEIGHT:** 8.31 (211) **WEIGHT:** 58.2 Lbs 26.4 Kgs

**TERM HEIGHT:** 9.49 (241)

# 12CE100 SEALED VALVE REGULATED LEAD ACID BATTERY

OPERATING TEMPERATURE RANGE	SELF DISCHARGE	TYPICAL APPLICATIONS	BEST PRACTICES
<p>Maximum Limit -4°F to 120°F (-20°C to 49°C) with proper temperature compensation controls. Lead acid batteries are temperature sensitive: refer to the temperature / capacity projection chart to identify available capacity at the application operating temperature.</p> <p><b>Application Note:</b> Maintain a state of charge greater than 60% when operating batteries at temperatures below 32°F (0°C).</p>	<p>Approximately 3% per month at 25°C.</p> <p>Charge before use when State of Charge is at or below 80%.</p> <p>Rate of self discharge will vary depending on storage temperature.</p>	<p>Delivering dependable, rechargeable, and maintenance-free power for VRLA applications:</p> <ul style="list-style-type: none"> <li>• UPS &amp; Power Management Systems</li> <li>• Security Systems</li> <li>• Renewable Energy Systems</li> <li>• Telecommunication Systems</li> <li>• Rail Signaling Systems</li> </ul>	<p><b>Safety is Your Responsibility!</b> Keep sparks, flames and cigarettes away from batteries at all times. Maintain good ventilation when working on or charging batteries.</p> <p>Keep batteries and terminal connections clean, dry and free of dirt and corrosion. Do not tamper with vent structures. Optimize the life of your batteries by limiting duty cycle depth of discharge to 75% or less.</p> <p>Charging service must be performed with equipment configured to support the charging recommendations herein. Batteries must be fully recharged after the termination of duty cycle usage.</p> <p>For further charging information, contact Crown Battery's SLI Product Support Group.</p>

## CHARGING:

### CYCLIC CHARGING:

Constant voltage charging at 2.35 VPC–2.45 VPC (25°C)

Recommended charge amperes current equal to 10–12% of 20 Hour Capacity

### FLOAT CHARGING:

Constant voltage charging of 2.25 VPC–2.30 VPC (25°C)

Float charging at this voltage range will enable the battery to self-regulate the amount of charge current required to maintain a full charge condition

### TEMPERATURE:

+/- 3mV / °C

### COMPENSATION:

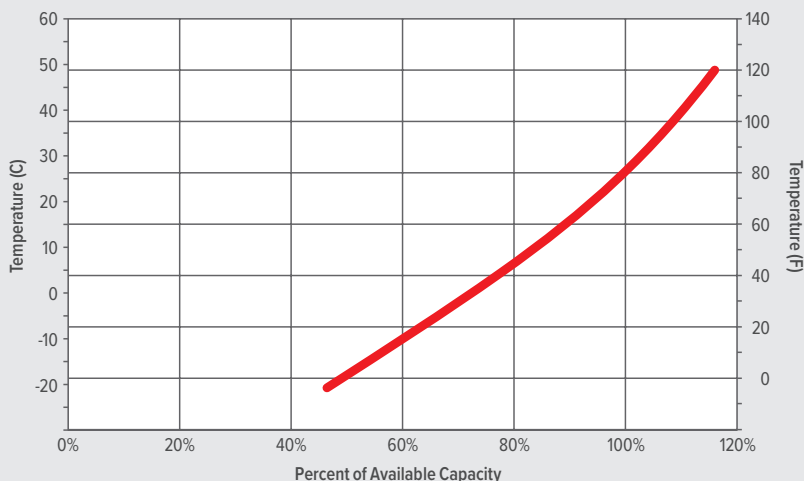
[25°C Operating Baseline]

## EFFECT OF AMBIENT TEMPERATURE ON BATTERY LIFE

Typical battery life is based upon a baseline operating temperature of 80°F / 27°C. Temperature increases of 15°F / 10°C over the baseline will cause the battery's rate of internal chemical reactions to double – something that will reduce battery life due to the accelerated deterioration of internal components.

Please contact Crown Battery to discuss any minimal requirements for battery life when operating batteries in temperatures greater than 80°F / 27°C.

## AVAILABLE CAPACITY AT APPLICATION OPERATING TEMPERATURE



*The Power Behind Performance*



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The data shown are nominal and should not be construed as maximum or minimum values for specification or final design. Capacity references are at peak capacity. Data for this product type may vary from that shown herein.

VISIT OUR WEBSITE AT [WWW.CROWNBATTERY.COM](http://WWW.CROWNBATTERY.COM)