

## LED Lighting Solutions For **Battery Production Facilities**



Due to soaring demand for lithium-ion batteries to meet the needs of electric vehicle and energy storage solutions, construction of new battery plants is booming.

Production is estimated to increase somewhere between 7 and 15 times by 2030! Many areas in these new facilities require specialty lighting solutions for hazardous locations, extreme temperatures and corrosive environments.

### **Areas Where Specialty Lighting May Be Required**

#### **High Temperature**

- Drying Oven Area
- Burn-in Chamber Area
- Testing / Grading Areas
- Rotary Kiln Area (lithium-ion recycling)

#### **Cold Temperature**

- Cold Rooms / Cold and Clean Rooms
- Dry Rooms
- Raw Material Storage
- Testing / Grading Areas

#### **Hazardous Location / Explosion Proof**

- Raw Material Storage (volatile/flammable liquids and powders)
- Electrode Slurry Mixing and Coating (flammable solvent / recovery)
- Electrolyte Filling (flammable vapors)

#### **Corrosive**

- Electrolyte Handling and Filling Areas

# LED Lighting Products For Extreme Environments / Hazardous Locations

Solas Ray Lighting offers many specialty LED lighting products designed for the conditions present in battery production/recycling/research facilities.

## Extreme Environment



### The Beast™ E2 - DBL Series

Lumens: **20,700 - 35,000** | IP Rating: **IP66**

- Ambient temperature: -70°C (-94°F) to 100°C (212°F)
- Corrosion resistant / chemical repellent PVDF finish
- Trade Agreement Act compliant



### The Goliath™ - HBGO Series

Lumens: **25,000 - 60,000** | IP Rating: **IP66**

- Ambient temperature: -80°C (-112°F) to 105°C (221°F)
- C5-M epoxy marine grade finish (PVDF Optional)
- Trade Agreement Act compliant



### The Monitor™ - HTR9 Series

Lumens: **5,700 - 10,000** | IP Rating: **IP67**

- Ambient temperature: -40°C (-40°F) to 100°C (212°F)
- Marine grade housing / high vibration resistance.
- Trade Agreement Act compliant



## Hazardous Location



### The Sentinel™ HJCR Series

Lumens: **5,600 - 39,200** | IP Rating: **IP66 / IP67**

- HazLoc: Class I, Div 1&2 / Class II, Div 1&2
- IP66, IP67, DLC, IK08, IK10 ratings
- Internal EM backup battery option



### The Dominator™ - HJDS Series

Lumens: **2,800 - 28,000** | IP Rating: **IP66**

- HazLoc: Class I, Div 1&2 / Class II, Div 1&2
- IP66, DLC, IK10 ratings
- Internal EM backup battery option



### The Steward™ - HJIL Series

Lumens: **2,800 - 16,800** | IP Rating: **IP66**

- HazLoc: Class I, Div 1&2 / Class II, Div 1&2
- IP66, DLC, ratings
- Internal EM backup battery option



### The Commander™ - CTL/CTLES Series

Lumens: **420 per head** | IP Rating: **IP65**

- HazLoc: Class I, Div 1 / Class II, Div 1
- IP65, NEMA4X ratings
- Up to 3 hours battery run time

Disclaimer: The electrical/environmental requirements and specifications for a given facility/area must be determined by the engineer, national/local electrical codes, etc. Lighting fixtures must be chosen to meet these individual specification/codes on a project-by-project basis. Solas Ray Lighting makes no claim to where any of the above lighting products may be used in any type of battery production facility without a proper engineering review of the specific needs of the location where lights are to be installed



(800) 840-5635 • SolasRay.com • quotes@solasray.com • 5935 West 84th Street • Indianapolis, IN 46278