



# UltraLux

## 30W LED Solar Pole Light

When the location is far off the grid and running power is not a viable option, a self-powered solar can be an excellent solution for the illumination of streets, parks, walkways, parking lots, jetties and a variety of other public spaces.

And when choosing solar product for your site, look no further than UltraLux. The result of successful collaboration of two Australia's leading manufacturers of LED lighting and solar poles, the UltraLux provides a robust and reliable solution to your solar investments.

Designed and manufactured in Australia, specifically for tough Australian conditions, the UltraLux Lateral and Beam are ideal alternatives to traditional grid tied lighting.

### Designed for use in:

- Parks
- Jetties and Pontoons
- Pathways
- Car Parks
- Remote Area Lighting
- Residential Streets
- Mine Sites and Quarries



DESIGNED &  
MANUFACTURED  
IN AUSTRALIA



# WORKING TOGETHER FOR A **BRIGHTER** TOMORROW

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## COOLON LED LIGHTING

Coolon is a leader in innovative LED lighting solutions. Designed and manufactured in Australia to highest standards, Coolon luminaires are used on mine sites, processing plants, power stations and heavy industrial foundries around the world.

## PHOTOVOLTAIC LIGHTING GROUP

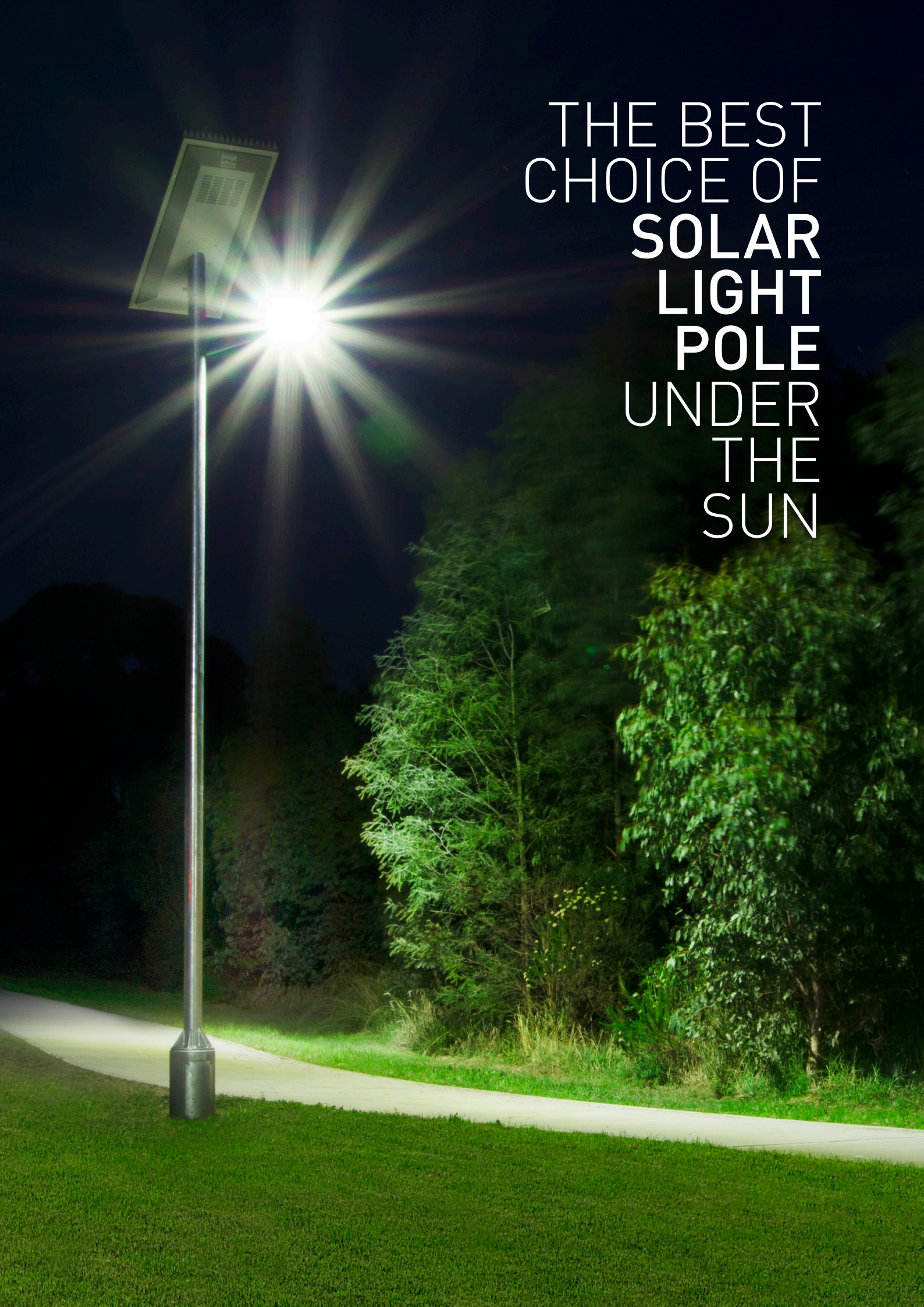
PLG is an Australian manufacturer of high quality standalone solar poles. PLG poles offer sustainable and economic solar lighting solutions, with applications in public parks, car parks, mine sites and off-the-grid locations around Australia.

## VALUE THROUGH COLLABORATION

Coolon and PLG have combined expertise to create the ultimate in solar pole lighting. The UltraLux range delivers sustainable value through efficient lighting without power bills, grid connections or carbon emissions.

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THE BEST  
CHOICE OF  
**SOLAR**  
**LIGHT**  
**POLE**  
UNDER  
THE  
SUN





### REDUCED INSTALLATION TIME

Simple installation without electrical grid connection, trenching, cabling or mains power wiring; means that the installation time can be drastically reduced, compared to a conventional grid tied lighting system.



### INVESTMENT THAT PROTECTS ITSELF

Every component of UltraLux has been thoroughly picked to provide the ultimate balance between performance, endurance and cost.



### A SET AND FORGET SOLUTION

Highest quality, robust LED light matched with high spec pole, fixtures and electronics. UltraLux is the ultimate solution for a long term reliable performance required from a remote lighting application. Each system is custom engineered and manufactured to order, so you can be sure that what is offered is the best fit for your application.



### FINE-TUNED FOR YOUR GEOGRAPHIC LOCATION.

It's not a secret that sun does not shine equally across the continent; some areas receive higher exposure to sunlight than other. For this reason, every UltraLux pole gets fine-tuned to the most optimal configuration based on its positioning and geographic location.



### VANDAL RESISTANCE BY DESIGN

Steel covered and reinforced back panel Industrial Grade, Solid State light source with Very High impact rating (IK09) Tilt down hinge is located all the way at the pole base Bird Repelling Barriers at the top of all panels creates an unsuitable landing surface to prevent fouling of solar panels.



# WHY USE ULTRALUX POLES

## THE BENEFITS

When the location is far off the grid and running power is not a viable option, a self-powered solar can be an excellent solution for the illumination of streets, parks, walkways, parking lots, jetties and a variety of other public spaces.

And when choosing solar product for your site, look no further than UltraLux. The result of successful collaboration of two Australia's leading manufacturers of LED lighting and solar poles, the UltraLux provides a robust and reliable solution to your solar investments. Designed and manufactured in Australia, specifically for tough Australian conditions.

- HIGHEST PERFORMANCE AND RELIABILITY SOLAR POLE LIGHTS
  - STEEL PANEL BACK. VANDAL RESISTANT DESIGN
  - BIRD REPELLING BARRIERS, REDUCE SOLAR PANEL FOULING
  - DUSK TILL DAWN OPERATION, WITH A MINIMUM OF 60 HOURS (5 NIGHTS) OF BATTERY BACKUP
  - MAINTENANCE FREE DEEP CYCLE BATTERIES, 8-10 YEAR DESIGN LIFE READILY AVAILABLE AND COST EFFECTIVE
  - HIGH PRESSURE WASHABLE
  - BUILT TO WITHSTAND SEVERE TEMPERATURE VARIATIONS
  - LIGHT POLES ARE 660 GSM - STRUCTURAL GALVANIZED COATED
  - BUILT TO THE HIGHEST INDUSTRY WIND LOADINGS OF 50M/SEC
  - NO POWER GRID CONNECTION REQUIRED
  - BUILT WITH AUSTRALIAN MADE, MAXIMUM POINT POWER TRACKING (MPPT) CHARGE CONTROLLER
  - CONFIGURED FOR 12VDC AND 24VDC LOW VOLTAGE POWER FOR HIGH ENERGY EFFICIENCY
  - CONTROL GEAR AND BATTERIES ARE IN THE BASE OF THE POLE FOR EASILY ACCESSIBLE FOR MAINTENANCE
  - SYSTEM ASSEMBLY IS OPTIMIZED TO MINIMIZE THE FREIGHT COSTS
  - RANGE OF BASE OPTIONS AVAILABLE FOR A VARIATION OF SOIL TYPES
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# BEHIND THE TECHNOLOGY

## SOLAR POLE

A typical solar lighting system consists of 5 major components; the Solar panel, Pole, Controller, Battery and Luminaire.

### SOLAR PANEL

UltraLux solar pole lights use highly effective monocrystalline silicon solar cell(s) as a preferred technology to generate the energy. As the name suggests monocrystalline solar panels are made of single silicon wafer cells. Monocrystalline is the most reliable, tried and tested solar technology under Australia's harsh conditions, with the minimal degradation in performance over time.

Monocrystal Solar Panels	Specifications
Cell Efficiency	16%
Solar Warranty	25 Year Limited warranty (10 years at 90% and 25 years at 80% efficiency), 5 year limited product warranty

### STEEL BACK PLATE

Highly vandal resistant design ensures that all the fragile system elements and electrical connections are well protected from elements and physical damage.

### CONTROLLER

All UltraLux solar poles are fitted with an intelligent solar charge controller. The Charge controller regulates the system and enables Dusk to Dawn operation or is easily set to desired running hours.

Controller	Specifications
Environmental Rating	IP66
Brand	Roc- Solid (AUS)
Type	Plasmantronics Driver, timer, and charger discharge control
Warranty	3 Years Manufacturer's Warranty



## BIRD SPIKES

A humane but effective design of the Bird Repelling Barriers at the top of all panels creates an unsuitable landing surface to prevent fouling of solar panels.

## POLE STRUCTURE

The UltraLux solar pole is engineered for long life and easy installation. It is supplied with a concrete reinforced base and Hot Dip Galvanized Pole.

Pole Structure	Specifications
Material Grade / Finish	Australian Structural Pipe 350CL0 / Galvanised
Flanges	16mm 250 grade plate
Panel Mount	1.6mm punched and folded
Base	Heavy duty battery encapsulated above ground, concrete reinforced. Galvanized finish. Pole hinging at flanges
Fasteners	8.8 grade structural galvanised
Warranty	12 month manufactured by PLG

## POLE BASED HINGE

Tilt down hinge is located all the way at the pole base to reduce the possibility of theft and vandalism

## BATTERIES / POWER STORAGE

The UltraLux solar system is engineered and balanced for optimal battery life. The battery is charged on a daily basis by the Solar panel and regulated by the intelligent solar controller. This prevents overcharge, degradation or permanent battery damage. The system is engineered around Maintenance Free Deep Cycle Batteries, designed for 8-10 year life. Replacement batteries are readily available and cost effective.

Batteries	Specifications
Type	VRLA Maintenance Free
Operation / Design life	8-10 years
Warranty	12 Months
Capacity Rating	12 Volt 20 hour rate

continue for luminaire specifications

# ULTRALUX LATERAL

## DLK – Heavy Industrial Luminaire

The DLK is a high power LED luminaire created for use in harsh industrial and mining applications. With its highly engineered, robust and solid build, the DLK is highly vandal resistant and features the performance that is unmatched by any of its rivals.

The DLK's incredible performance and resilience has been recognised by many prestigious industry awards.

- Energy Efficient
- Highly Resistant to Vibration
- High Pressure Washable
- Impact resistant design
- Multi-layer Corrosion Resistant Coating
- Produces high quality white light
- Suitable for use in environments with Severe Temperature Variations
- Low surface temperature does not bake on dirt
- Operates on safe, extra low voltage
- Proudly Made in Australia
- Industry award winning product
- 3 Years Factory Warranty



# UltraLux

## LATERAL



### ULTRALUX LATERAL

Light Source	High Power LEDs
Power	Limited to 30W
Life	> 50,000 Hours to L70 (30% light depreciation)
Impact Rating	IK09
Environmental Rating	IP66
Colour Temperature	5500K - 6500K
Operating Temp. Range	-30 ~ +50°C
Warranty	3 Years

### CONTROLLER

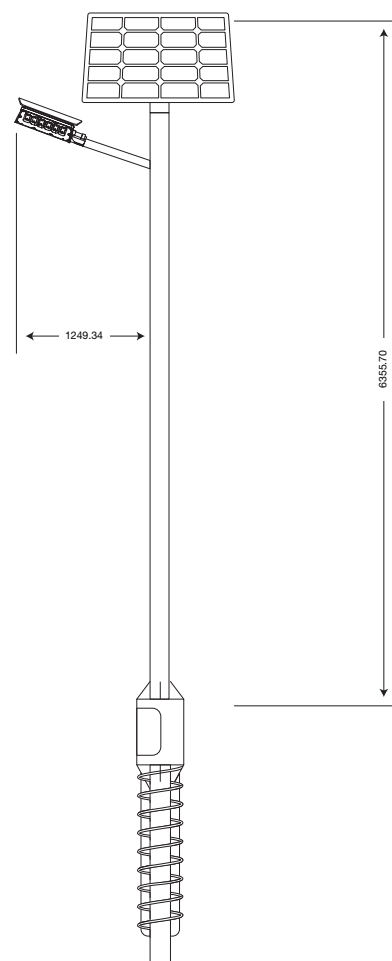
Environmental Rating	IP66
Type	Driver, timer, and charge discharge control
Brand	Roc-Solid (Australia)
Warranty	3 Years

PANEL	Peak Power (Wp)	Vmax (V)	Vmax (A)	Voc. (V)	Isc. (A)
200W Panel	200.00	36.9	5.45	45.6	5.80
Warranty	5 Year Limited Product Warranty				

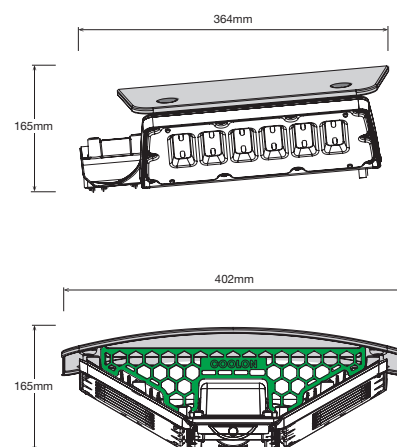
### APPLICATION

Parks	✓
Jetties and Pontoons	✓
Pathways	✓
Car-parks and Driveways	✓
Remote Area Lighting	✓
Residential Streets	✓
Mine Sites and Quarries	✓
Ports and Harbours	✓
Customised Lighting Designs	✓

### POLE DIMENSIONS



### LUMINAIRE DIMENSIONS



# ULTRALUX BEAM

## CP9 – Heavy Industrial Luminaire

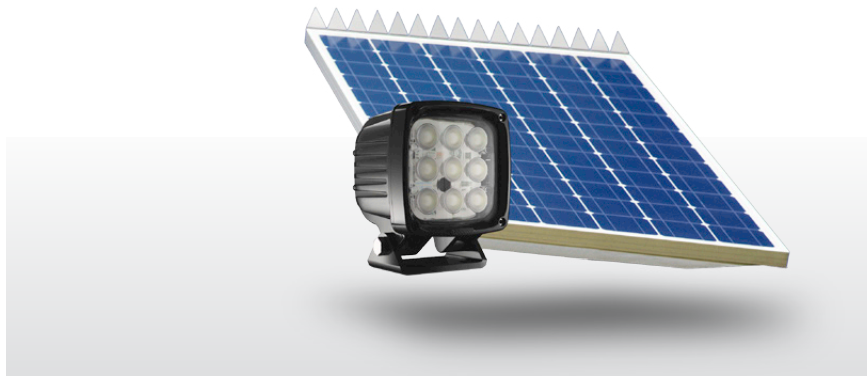
The CP9 sets the benchmark for a compact, heavy duty LED work light performance.

This Award Winning LED luminaire is designed for use on heavy-industrial mining machinery, such as haul-trucks, dozers and excavators. A product that is designed to survive there, can survive anywhere.

- Energy Efficient
- Highly Resistant to Vibration
- High Pressure Washable
- Impact resistant design
- Multi-layer Corrosion Resistant Coating
- Produces high quality white light
- Suitable for use in environments with Severe Temperature Variations
- Low surface temperature does not bake on dirt
- Operates on safe, extra low voltage
- Proudly Made in Australia
- Industry award winning product
- 3 Years Factory Warranty



# UltraLux BEAM



## ULTRALUX BEAM

Light Source	High Power LEDs
Power	Limited to 30W
Life	> 50,000 Hours to L70 (30% light depreciation)
Impact Rating	IK09
Environmental Rating	IP66
Colour Temperature	5900 - 6500 K
Operating Temp. Range	-30 ~ +50°C
Warranty	3 Years

## CONTROLLER

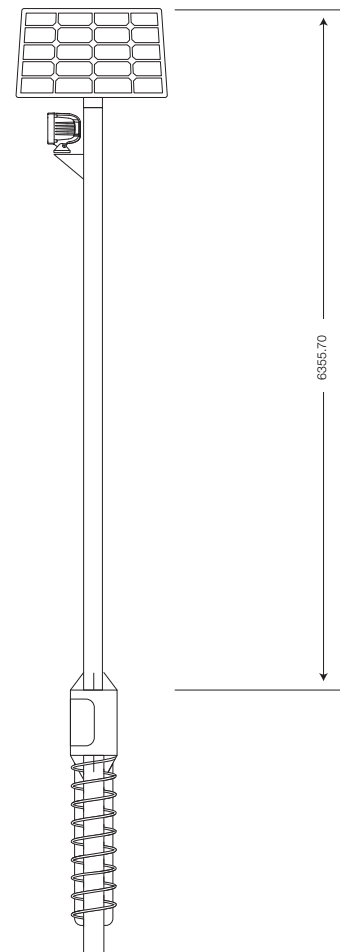
Environmental Rating	IP68
Type	Driver, timer, and charge discharge control
Brand	Roc-Solid (Australia)
Warranty	3 Years

PANEL	Peak Power (Wp)	Vmax (V)	Vmax (A)	Voc. (V)	Isc. (A)
200W Panel	200.00	36.9	5.45	45.6	5.80
Warranty	5 Year Limited Product Warranty				

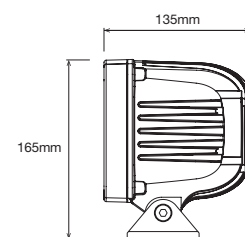
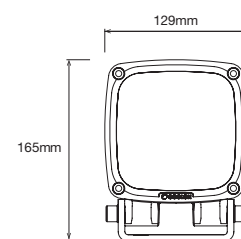
## APPLICATION

Truck Yards	✓
Jetties and Pontoons	✓
General Area Lighting	✓
Car-parks and Driveways	✓
Remote Area Lighting	✓
Sign Lighting	✓
Mine Sites and Quarries	✓
Ports and Harbours	✓
Customised Lighting Designs	✓

## POLE DIMENSIONS



## LUMINAIRE DIMENSIONS



ALL PRODUCTS IN THE  
ULTRALUX RANGE  
COMPLY WITH  
THE FOLLOWING  
AUSTRALIAN  
STANDARDS:

AS 4100:1992 Preferred dimensions for light poles and bracket arms  
AS 4100:1990 Steel Structures  
AS 4100 Supp1:1999 Steel Structures  
AS/NZS 1170.2:2002 Structural design actions – wind actions  
AS/NZS 4676:2000 Structural design requirements for utility services poles  
AS 1554.1:2004 Structural steel welding – part 1 Welding of steel structures  
AS 4680:1999 Hot dip galvanized (zinc) coatings on fabricated ferrous articles

ORDERING EXAMPLE

**ULTRALUX - 5 - 200 - DLK**

PRODUCT      POLE TYPE      SOLAR PANEL      LUMINAIRE

PRODUCT	POLE TYPE	SOLAR PANEL	LUMINAIRE
ULTRALUX	5	5M Galvanised Pole w/ MPPT	DLK
		200	200W Solar Panel, 2 x 85 Ah Batteries
			CP9
			<b>LATERAL 30W Rated DLK</b> <b>BEAM 30W Rated CP9</b>

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