

6m Mounting
Height

30 W All night operation
with 5 nights battery
backup

Complete "Off-Grid"
Solution



Aspire
Solar Series

 **acrospire**



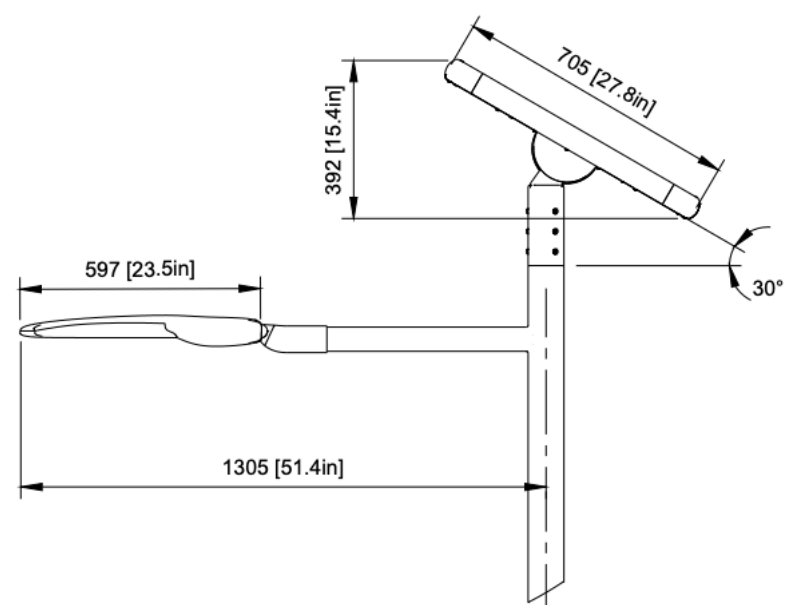
Designed in Australia to meet the increasing demand for smart connected lighting infrastructure the ASPIRE offers an environmentally friendly, off-grid connected solar option where traditional lighting is impractical or cost prohibitive. Aspire is the highest quality, most technologically advanced solar light on the market today.

Features

- **LED:** 32 x CREE XP-G LED
- **OPERATION:** Average of 14 hrs per night with 5 nights backup
- **RESISTANCE:** IP68 waterproof construction and connectors
- **CONTROLLER:** MPPT solar charge controller with programmable ON / OFF setting (dusk to dawn) 1-24 hours ON / 1-24 hours OFF
- **BATTERIES:** 2 x GFS Advanced Cell Tech LiFeP04 Batteries
- **SOLAR PANEL:** 225W(p) mono-crystalline panel with tempered glass and edgeless frame design to prevent dirt & avian fouling
- **LAMP OUTPUT:** 1-70W (All Night)13,090lm + 30W PIR = 5,610lm
- **WARRANTY:** Solar panel 25yr / Complete 5yr / Battery 10yr*

Benefits

- An “off-grid” solution, negating the need for extensive civil works or costly connection to the main grid.
- No running costs
- Zero maintenance system
- Self adjusting light levels
- Elegant design for suburban areas
- Flexible mounting options



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LED

32 x USA made CREE XP-G LED configured in 2x18 LED Banks

1-70W (All night operation) = 13,090lm + 5,610lm 30W PIR BOOST (when triggered) = 18,700lm Max

4000K CCT, 70 CRI 187lm/W

Tilttable LED angles -15° to + 15°

Dual LED module for redundancy

Lens

Impact resistant PEET ultra clear acrylic lens allows for evenly distributed illumination

Dual lens design offering lens mixing. (Type 3/5)

- Type 3 (standard) - Pathway lens 135° x 85°
- Type 5 (optional) - Spherical lens 110° x 135°

Solar Panel

225W(p) mono-crystalline panel with 24% efficiency

Impact resistant tempered glass solar panel assembly with protective stone guard plate on back of panel as standard.

Variable angle design with 360° horizontal solar panel rotation

Battery

2 x 25.6V 28.8Ah Replaceable, 1474Wh LiFeP04 Batteries (ACT)

Upgradeable to Four (4 = 2949Wh) GFS Advanced Cell Technology (ACT) Batteries (in pole, sealed)

5 nights backup power** (60hours @ 30W)

Solar Charge Controller

1-70W All night operation with 30W PIR Boost when triggered

Monitors system vitals - LED / solar / battery & temperature

In built soft start constant current LED driver with over voltage, over current and short circuit protection

MPPT (maximum power point tracking) charging with 99% tracking efficiency

IOT Smart city ready using GFS-SAM monitoring system***

Programmable turn on hours, before sunrise

Operating Temperature

-20°C to 70°C / -4°F to 158°F

Sail Area / EPA - Complete System

0.65m² / 7 FT² @ 30° mounting angle

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Motion Sensor

PIR passive infrared with repeat trigger feature (stays on full power for 30 seconds longer than the heat source or movement is detected)

Reduces false triggering (trees, high winds and small rodents)

360° detection range from 6m / 20FT on 6m pole / 20FT on 20FT pole*

Boost mode (60W) ON time once triggered - 30 seconds after motion finishes

Unit Warranty

Solar Panel	25 Years
Mounting Bracket	5 Years
LED Light Fixture	5 Years
Electronics	5 Years
Battery Defect Warranty	10 Years*

Full warranty details available at greenfrogsystems.com.au/warranty

Certifications

ISO 9001:2015 QUALITY ASSURED COMPANY

ASNZS 1158.3.1 Pedestrian area (Category P) lighting

Product and component certifications listed UL E349212 LED, UL3135 Cabling, UL1598 Safety Luminaires, UL8750 LED Safety

Certified to meet ANSI/IES RP-8-14 and ANSI/IES RP-20-14 lighting standards

3.1 P1-P12, AS60598 Australian Certified LED

Standard Mounting Height

LED 6m / 19.68FT above grade

Package Dimensions / Weight

Crate: 1650 x 880 x 560 mm / 65" x 35" x 22" Pole: 6000 x 610 x 310 mm / 236.2" x 24" x 12.2"

Crate: 191 kg / 421 lb

Options

Anti-Climbing Spike Collar

Stone Guard - LED / Solar Panel

Powder Coating (any colour)

Twin Head LED

4K CCTV Solar Powered Security Camera

