ALDRIDGE

SolSolution Apollo

Dual CCT
Solar Pedestrian Light

SolSolution Apollo

Introducing the Aldridge SolSolution Apollo. Sleek and contemporary in design, the Apollo comes with additional features including; remote control, motion sensor and variable light settings. This substantial luminaire will provide exceptional dusk to dawn lighting for urban locations or low light areas, providing extra public security.

Apollo's advanced design and smart control operation, illuminates spaces with a 360° glare-free beam. Solar powered with no mains supply necessary, the Apollo can be installed almost anywhere with zero operating costs and reduced installation costs, contributing to a reduced carbon footprint.

Apollo uses a combination of the latest technology including, lithium battery, solar panel, and smart control system. The highly-efficient 42W solar panel and MPPT solar charged controller, ensure sufficient power can be generated every day to ensure the stability of the luminaire to work all year round.

With built-in lighting programs, Apollo's lighting power and operational times can be adjusted via the remote control. The luminaire can also operate using a motion detection mode. The Apollo has customisable color temperatures, brightness settings and operational time to correspond with daylight hours.
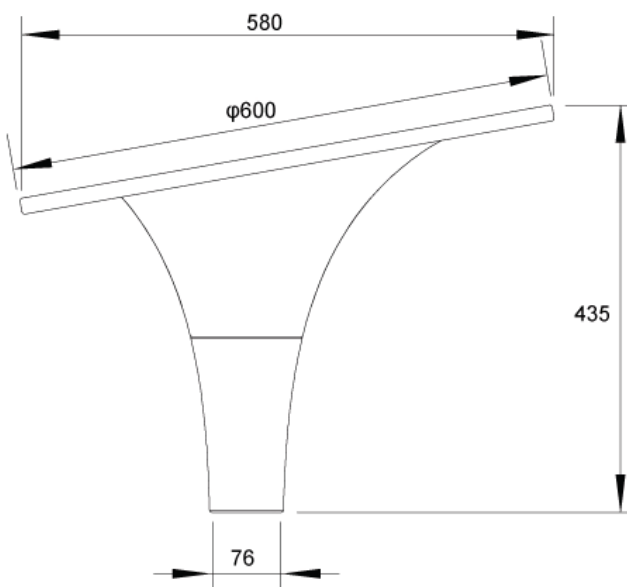
Aldridge SolSolution Apollo is the perfect solution for illuminating public areas with a quality fitting, which is not only aesthetically pleasing but substantially reduces operational and installation costs.

LifePO4 Battery
long lifetime,
3000 cycles DOD 70%

Quality finishing
class A components
quality guaranteed

Microwave sensor
360 degree covering
Covering big areas

360 degree lighting
covering more area
uniform lighting output

High luminous
up to 180lm per watt
ultra high efficiency

Set powers & CCT
Lighting power and
light color is adjustable

Weather proof
IP65 level
Outdoor using

2.4G Remote control
Long distance operation
360 degree signal

Features

- High quality solar powered luminaire

- 2.4 Gb long-range remote control operates:

  - Variable CCT and brightness settings
  - Constant lighting or motion sensor operation

- Highly efficient luminance, up to 180lm per watt

- 360° area lighting

- 360° motion sensor

- Premium LifeP04 built in battery pack

- Dual layer optics to create even light distribution

- Weather proof, IP65

- Aluminium die cast body

- Anti-theft stainless steel screw fixings

Dimensions

Technical Data

LED engine	SMD3030 168Pcs 1W/LED
LED rated power	218W ±5%
Luminous flux(lm)	>2,800lm
Color temperature	3000K+4000K or 3000K+6000K
Beam angle	360° symmetrical distribution
Mono solar panel	42W 18V
Solar controller	MPPT >96%
LifePO4 battery	12.8V 154WH
Charging time	4.5 hours
Discharging time	>20 hours
Battery lifetime	>3000 cycles (D.O.D 70%)
Battery autonomy	2~3 days
Working temp.	-15°C ~ +70°C
Working mode	Constant power output or motion sensor optional
IP rating	IP65
Certificates	CE, ROHS, LM80, CB

Benefits

- Public Safety and Security

- Multi Function Design

- Customisable Program

- Long lifetime and Reliability

- 2800 Lumens

- Minimal Glare

- Minimum Installation Costs

- Energy Saving

- Low Maintenance

- Easy Clean

ISO ISO ISO
ISO9001 ISO45001 ISO14001

ALUMINIUM DIE CASTING

Quality finished aluminium body, reduces the possibility of rust or oxidation even after long-term use. Maintaining the color, lustre and finish for years to come.

OPAQUE DIFFUSER

With up to 93% light transmittance, the opaque diffuser gives a uniform light output without the glare.

LED TECHNOLOGY

With 180lm/Watts luminance efficiency. SolSolution Apollo features adjustable color temperatures and brightness, between 3000K and 6000K (or 4000K), brightness can be adjusted between 20%~100% as required. The aluminum heat sink provides superb LED lighting efficiency by keeping it operational under 60° to greatly extend the lifetime of LED chip.

DRAINAGE HOLES

Built in drainage holes prevent the build up of water and vapour and prevents deterioration of the luminaire.

ANTI-THEFT SCREW FIXINGS

Special stainless steel 304 anti-theft, rust resistant screws, makes installation easy, and secures the fitting to prevent theft.

RoHS compliant   C E   IP65

MONOCRYSTALLINE PV

19.8° kW efficient solar panel,
designed to generate continuous
power supply.

LIFEPO4 BATTERY

Built in lithium battery with up to 4000
cycles D.O.D 50%. Ensuring system
keeps running up to 8 years without any
maintenance. Battery capacity : 154WH.

TRANSPARENT COVER

Strong, transparent polycarbonate cover
protects the opaque optics from damage and
seals the unit against insects. keeping the inside
of the light clean and the outside easy to clean
and maintain.

MPPT CONTROLLER+ SENSOR

Inbuilt microwave sensor. The motion detection
mode is controlled via the MPPT remote control.

76MM DIAMETER

Suitable for pole between 60~76mm Dia.
Easy to secure to using 2 x M8 screws.

2.4G REMOTE CONTROL

2.4G remote control has a long
distance range and 360° signal
transmission. Its functionality sets
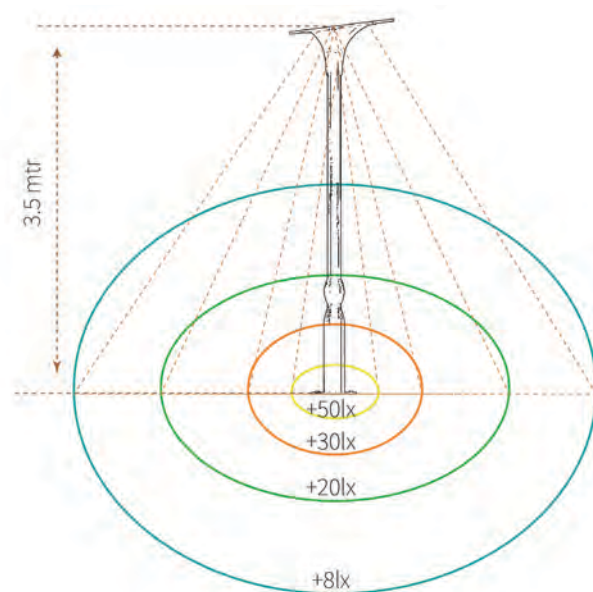light power, color temperature and
operational hours.

Product Specifications

PRODUCT CODE	SolSolution Apollo
Rated Power	18W max
LED Type	Philips Lumileds SMD2835 128 Pcs Multi-chip Technology
LED Efficiency	180lm/W max(CCT)
Luminous Flux	>2,800lm
CCT Range	3000K- 6000K
CRI	>80
Beam Angle	120°
LED Life	60000 Hrs
Battery Pack Data - 154Wh	
Nominal Battery Voltage	12.8V
Battery Type	LiFePo4 Lithium Iron Phosphate
Capacity (Ah) @ C10	12Ah
Nominal Energy	≥154Wh
Charging current	10A max
Discharging current	10A max
Battery autonomy	1 day working, plus 2-days backup 3~5 days in motion detection mode
Working temperature	-20℃ to +70℃
Battery Protection	Battery Management System (BMS Protection)
Life Cycle	≥4000 (charge/discharge with 50% DOD at 25℃, and residual capacity ≥80% normal capacity.)
Battery life	8 years +
Warranty	3 years
Charge Controller - 10mps/12V	
System voltage	12V
Load maximum power	30W/12V
Maximum solar input power	42W/18V Monocrystalline
Maximum charging current	5.5A
Controller Type	MPPT
Over-discharge voltage	11V
Warranty	3 years

Solar Module Data	
Maximum Power Pmax(W)	42 Wp
Numbers of cells	36
Open Circuit Voltage (Voc)	21.6 V
Short Circuit Current (Isc)	2.56 A
Maximum Power Voltage (Vmp)	18 V
Maximum Power Current (Imp)	2.33 A
Backsheet colour	Black
Solar Cell Efficiency (%)	19.80
Operating Temperature (℃)	-40℃ to +85℃
Module Fire Performance	CLASS C (IEC 61730)
Power Tolerance (%)	± 3%
Control Method	Automatic dusk to dawn with Time Control / Manual ON-OFF
Lighting Modes	Constant lighting with fixed power or 30% + 100% motion detection mode
Environmental Data motion detection mode	
Working Temp.	-20 ℃ ~ 70 ℃
Fixture IP	IP65
Cooling	Conventional
Light Fixture Material	Polycarbonate + aluminium
Relative Humidity (RH)	10%-95%
Mechanical Data	
Product Finish	Silver / Black
N.W/Light	12.20kg
G.W/Light	13.50kg
Light Dimensions	D600*435mm
Pole diameter to fit	76mm

Light Distribution

3.5 mtr

+50lx
+30lx
+20lx
+8lx

○ φ 2 mtr.   ○ φ 4 mtr.   ○ φ 8 mtr.   ○ φ 12 mtr.

ALDRIDGE

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BESTPRACTICE CERTIFICATION
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OH&S MANAGEMENT SYSTEM
NSW VIC QLD

BESTPRACTICE CERTIFICATION
ISO 45001
OH&S MANAGEMENT SYSTEM
NSW VIC QLD

BESTPRACTICE CERTIFICATION
ISO9001
QUALITY MANAGEMENT SYSTEM
NSW VIC QLD

BESTPRACTICE CERTIFICATION
ISO14001
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