SMART SOLAR STREET LIGHTING

FREEDOM STREET

- Quick and easy **15min installation** at ground level
- **Monocrystalline** solar module
- **EDGE** web-based wireless controls, monitoring & management system
- Dual **LiFePO4 Li-ion** patented battery management system with 10+ year performance
- Double hot-dipped galvanised powder coated **lowerable pole**
- Advanced LED lighting including **PIR Motion Sensor** and **Dark-sky compliance**

LEADSUN

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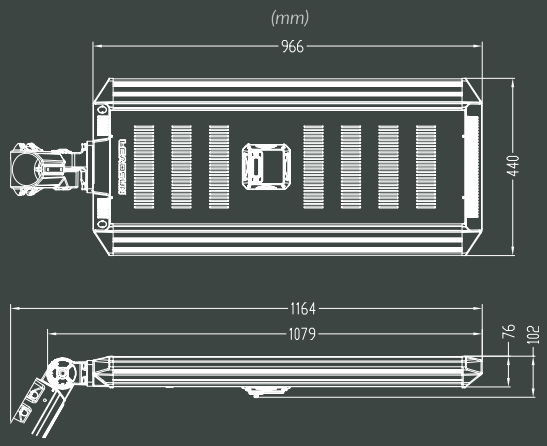
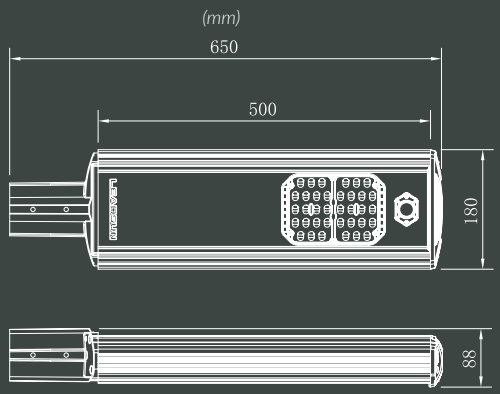
LEADSUN FREEDOM

CE | IP66 | IK08





LED LUMINAIRE

LED Maximum power	10W
Luminous Flux	1800 lm
Efficacy	180 lm/W
CCT	3000K
Tilt	0°
Forward Distribution	68%
Rear Distribution	32%
Dark Sky Approved	3000K CCT option only
Lighting Distribution	Type 3
Built-in Motion Sensor	PIR (Passive Infrared)
Colour	Black
Construction & Fixings type	Aluminum & Stainless Steel
Water Ingress Rating	IP66

SOLAR & BATTERY MODULE

Solar PV power	60W
Solar PV type	Monocrystalline
Battery Capacity	512Wh
Battery Type	Lithium LiFePO4
Battery Voltage	12.8Vdc
Charging Temp Range	0C to 60C
Colour Options	Black
Construction & Fixings Type	Aluminum & Stainless Steel
Water Ingress Rating	IP66
Wind Speed Rating	232km/h Wind Region C

TECHNICAL PERFORMANCE

LED Driver	PWM (Pulse Width Modulator)
Wireless Connectivity	LoRa 915Mhz
Remote Monitoring & Control (EDGE)	Optional (4G Cellular Connection Required)
Software Programming	USB or EDGE Wireless
LED illumination run time	14hrs
Battery Autonomy	>4 days

LIGHTING CONFIGURATION

Luminaire Height	6.8m
Pole Spacing (PR5)	60m (Staggered)*
Pole Spacing (PR6)	68m (Staggered)*
LED output power	6W

*Based upon 12m wide road reserve

*Based upon AS1158.3.1 Category PR5 / PR6 compliance & LLF of 0.88

POLE SPECIFICATIONS

Pole Height (AGL)	7.0m
Pole Type	Round & Tapered
Diameter	148mm – 89mm
Thickness	3.5mm
Footing Options	Ragbolt, EZYfoot
Depth-In-Ground	900-1200mm
Steel Finish	Hot Dipped Galvanised & Powder Coat
Colour	Black

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