LEADSUN
EST. 2005

High Power Road Lighting
Mono360 Series

5 YEARS UNLIMITED WARRANTY

The Mono360 redefines high-power road lighting with its distinctive 360-degree vertical solar panel and flexible, modular design. Engineered for Australian conditions, the 360-degree solar panel captures direct, reflected, and ambient light from every angle, delivering dependable off-grid performance without the complexity, costs and delays of connecting to the electricity grid.

360° Omnidirectional Energy Capture
Sleek cylindrical design captures the sun's energy from every angle, even on cloudy days.

Self Cleaning
Beneficial cleaning effects of vertical panels reduce dust, dirt, debris and snow build up.

Durable Aluminium Frame
Superior strength and corrosion resistance for Australia's harsh conditions.

Reduced Wind Loading
Vertical panels reduce wind loading and associated costs of engineered poles.

Flexible
Modular and stackable with up to three solar engines, three battery sizes and your choice of luminaire.

Power Guard Technology
Real-time SMART battery monitoring for 'Always on Lighting' even during prolonged extreme weather events.

EDGE™ Remote Monitoring
Leadsun Edge web-based wireless control and monitoring for remote configuration and real-time performance tracking to boost efficiency and reduce maintenance costs.

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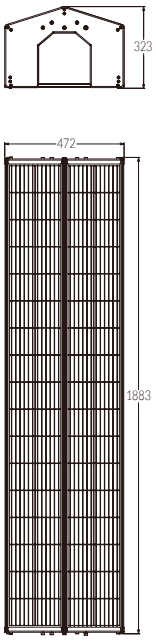
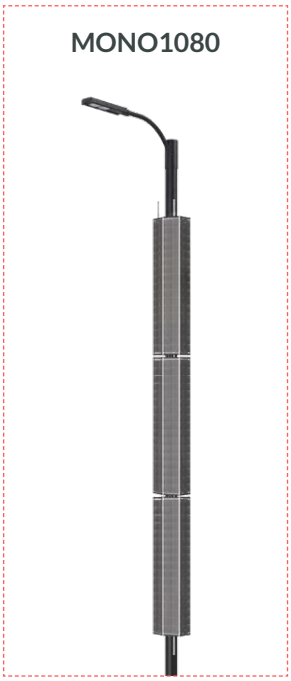
Vertical Solar Panel

The Mono360 is a modular solar panel that can be stacked up to three units high for more power. Featuring high-efficiency monocrystalline cells and an MPPT controller to capture and store the sun's energy, even on cloudy days. Engineered for Australian conditions, the Mono360 has a sleek, vertical profile to reduce wind loading and a reliable, fail-safe design ensuring one damaged solar panel won't leave you in the dark.





Model No.	MONO360	MONO720	MONO1080
PHYSICAL PARAMETERS			
Solar module power output (w)	500	1000	1500
Solar module effective output (w)	200-300	400-600	600-900
Solar panel efficiency	> 25%	> 25%	> 25%
Solar panel grade	A Grade	A Grade	A Grade
Panel wind speed rating (km/h)	160	160	160
Pole mounting diameter (mm)	100~200	100~200	100~200
Net weight of product (kg)	38	76	114
Typical pole height (m)	6-8	8-10	10-12
Product dimension (mm) LxWxD	1900 x 475 x 330	3800 x 475 x 330	5700 x 475 x 330

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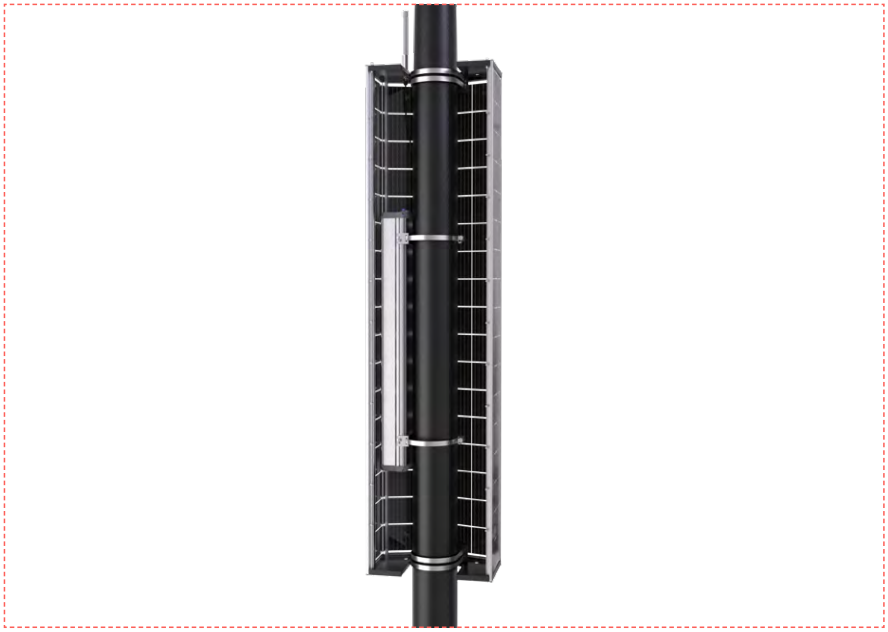
High Capacity. High Output.

Engineered for Australian conditions and tested at 50 degrees Celsius, the Mono360 is equipped with our patented dual cell battery technology for real staying power, retaining more than 80% battery capacity after 4000 cycles. Available in three sizes, the battery and controller module attach directly to the pole and cleverly concealed behind the solar panel to provide better weight distribution, stability and airflow for passive cooling and improved performance. Each Mono360 panel is paired with its own battery system for increased redundancy and control.



Model No.	LSBY164012- MC	VSBY205012- MC	VSBY246012-MC
BATTERY PARAMETERS			
Battery capacity (wh)	1640	2050	2460
Standard voltage (v)	12.8	12.8	12.8
Cycle life (≥80% Capacity)	>4000 cycles	>4000 cycles	>4000 cycles
Cycle life test temperature	50°C	50°C	50°C
Charge temperature	0°C~51°C	0°C~51°C	0°C~51°C
Discharge temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C
Autonomy	>5 days	>5 days	>5 days
CONTROLLER PARAMETERS			
PV charge controller	MPPT	MPPT	MPPT
LED power output (w)	20-150	20-150	20-150
PIR function	Yes	Yes	-
Wireless type	EDGE	EDGE	EDGE
Net weight of product (kg)	15	19	2* 12
Dimension of unit (mm)	1250 x 150 x 100	1500 x 150 x 100	2* 1000 x 150 x 100

* Additional battery sizes available on request.

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Road Lighting Performance

The Mono360 pairs with either the high-performance Leadsun RSL luminaire or the industry-recognised Sylvania RoadLED MIDI, giving you the flexibility to meet Australian and New Zealand road lighting standard 1158.1 without compromising performance, power or reliability.

Model No.	L4SH - Leadsun RSL luminaire	L4YR - RoadLED MIDI
TECHNICAL & OPERATING PARAMETERS		
LED output (w)	20-150	20-120
LED colour temperature (k)	4000	4000
LED typical luminous flux (lm)	25500	14500
LED distribution type	Type 2 Wide, TSH distributions	T3 standard, options available
Road category	V5, V4, V3	V5, V4, V3
Efficacy (lm/w)	>175	>130
Lifetime	L90 @ > 102,000 hours	L95 @ 88,000 hours
Protection	IP65, IK07	IP66, IK07
Dark sky option	IDA-Compliant	IDA-Compliant option

Disclaimer: The RoadLED Midi has been modified by Leadsun to operate on DC Voltage.
All measurements noted in this document have been rounded to within ±20mm, ±1kg, ±15lx.
Actual product may vary slightly. Battery storage limitations apply.

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