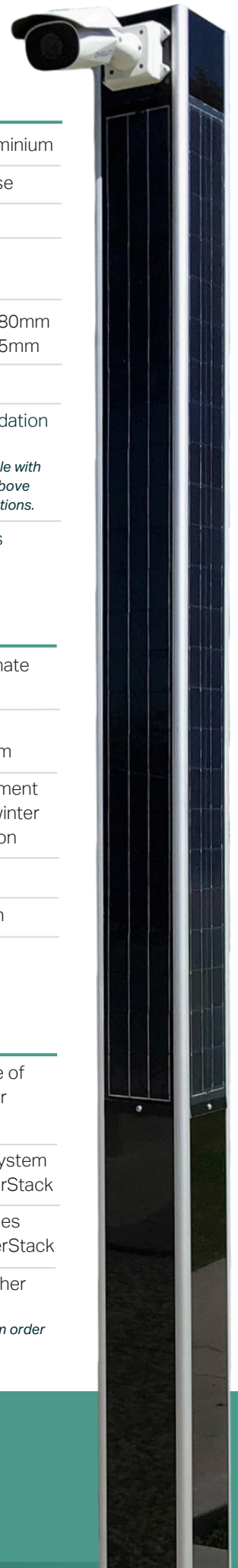


Technical specifications



General

Energy Source	Solar power
Operating Temperature	-30°C to +60°C
Height	1m to 8m
Warranty	10 years limited*
System Voltage	12V _{DC} <i>Other voltages available, requires external components (ext. sourced)</i>
System Design Life	> 10 years
Wind Resistance	> 250km/hr wind
Impact Rating	IK10

Control Box

Control System	Maximum power point tracking (MPPT) <i>Single MPPT and Double MPPT versions available (excl. Bollard)</i>
Voltage	12V _{DC} <i>Can be boosted to 24V, 48V & other voltages with required accessories (sourced ext.)</i>
Material	Powder coated galvanised sheet metal
Terminal	1mm - 4mm field terminal connections <i>With lever blade disconnect & fuses in control box, located inside top of pole</i>
Remote Access	Access system diagnostic app via Bluetooth

Solar Panel

Technology	Monocrystalline solar photovoltaic cells
Encapsulant	Shatterproof glassless polymer
Power Output	Up to 720W based on size and location
Connection	Waterproof 30A connection system
Life Expectancy	>15 Years

Pole

Material	Industrial grade aluminium
Coating	Architectural anodise
Process	Extruded
Cross Sectional Dimensions (pole)	180mm x 180mm
Cross Sectional Dimensions (base)	Bollard: 180mm x 180mm Poles: 305mm x 305mm
Estimated Life	~ 30 years
Foundation Options	Concrete-free foundation option available <i>System is also compatible with standard pad, pier and above ground concrete foundations.</i>
Color	Black - Other colors available with MOQ

Energy Storage System

Technology	Lithium Iron Phosphate (LiFePO ₄)
Battery Management	Proprietary battery management system
Battery Backup	5 days severe inclement weather based on winter sun hours for location
Battery Voltage	Nominal 12V _{DC}
Thermal	Insulation protection
Replacement	>10 years

Design and Service

Solar	Designed for middle of winter conditions for geolocation
Pole installation	Engineered winch system available from PowerStack
Payload installation	Mounting accessories available from PowerStack
Customisation	Branded infill and other options available <i>Sold separately, minimum order quantities may apply.</i>

10

YEAR LIMITED WARRANTY*

60 ↓

MINUTES INSTALL TIME

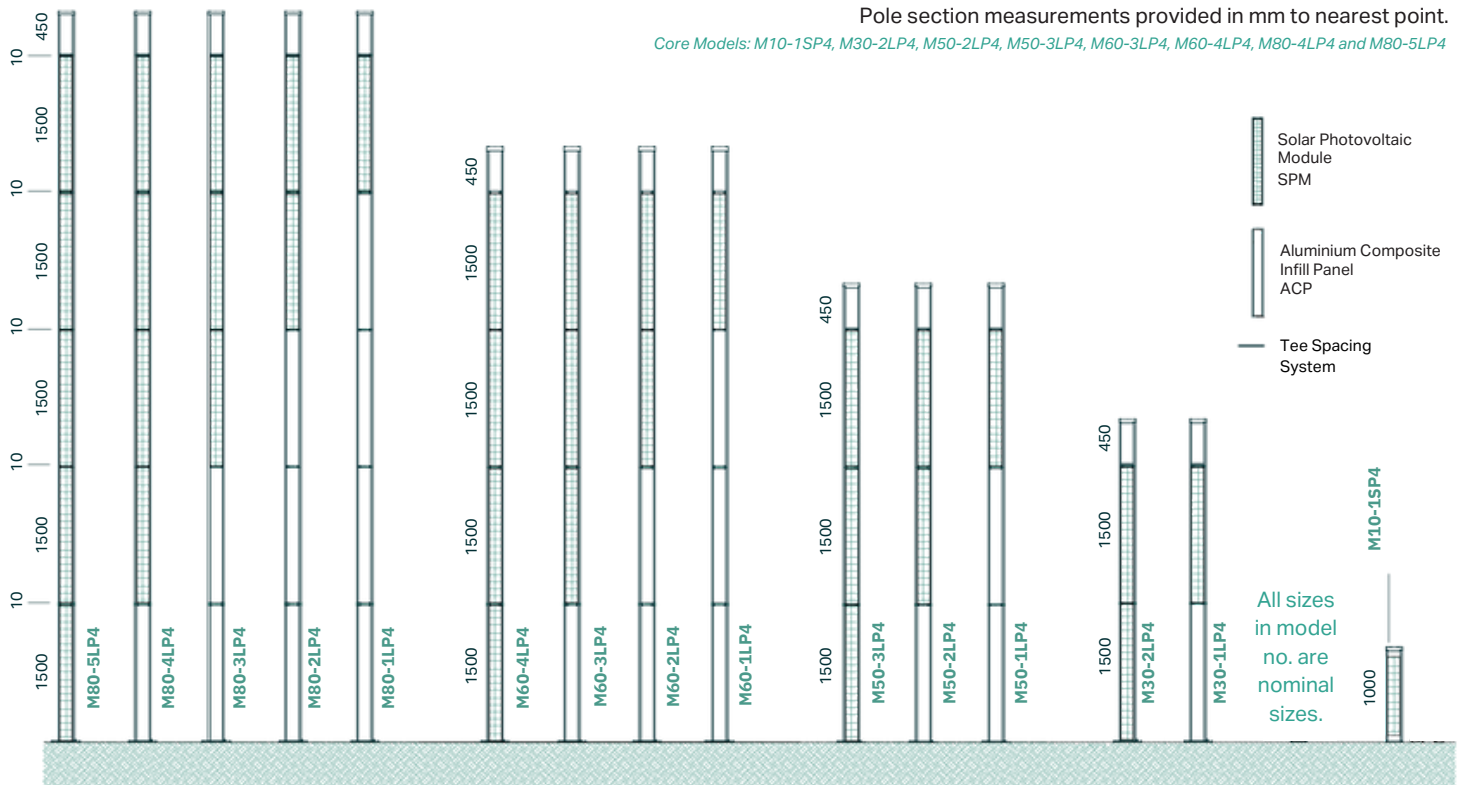
5

DAY POWER BACK-UP

Model range

Pole section measurements provided in mm to nearest point.

Core Models: M10-1SP4, M30-2LP4, M50-2LP4, M50-3LP4, M60-3LP4, M60-4LP4, M80-4LP4 and M80-5LP4



All systems are sized for a back up of 5 days in severe inclement weather, in winter sun conditions, based on the load and panels selected. Core models are typically available for shipping immediately, with no minimum order quantity (MOQ), other models are available on a 10-12 week lead time with MOQ required.

Zonal performance data

The wattage available from a PowerStack pole is determined by the location, power requirement of the technology payload, and run profiles. PowerStack systems are designed for the lowest annual sunlight hours for each zone, ensuring optimum performance year round.

- Zone 5
- Zone 4
- Zone 3
- Zone 2
- Zone 1



The zones shown on this page give an indication of variance in sunlight hours across Australia, for accurate data for your chosen site, please speak to our team. All wattage figures shown are indicative only, please contact your local sales representative to discuss your project requirements.

	Wattage				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
APS- M10	1	2	3	4	5
APS- M30	8	13	18	22	28
Day/Night (DN) 24/7 operation	14	20	28	34	42
APS- M60	18	26	37	45	56
APS- M80	23	33	47	57	66

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