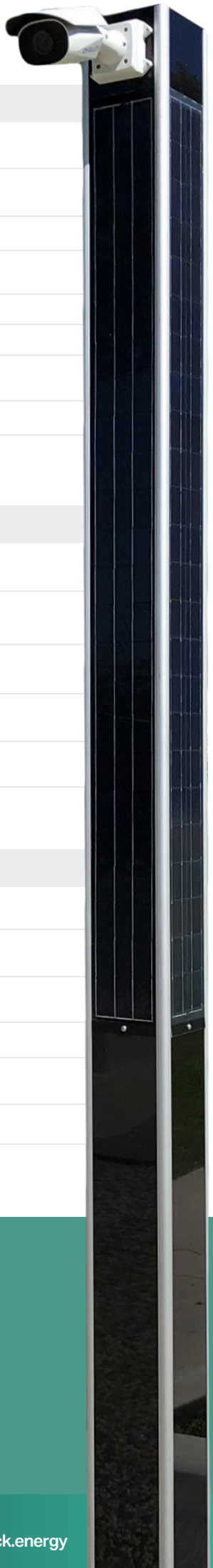
Technical specifications



General		Energy Storage System	
Energy Source	Solar power	Technology	$LiFePO_4$ (Lithium Iron Phosphate)
Operating Temperature	-30°C to +60°C	Battery Management	Proprietary battery management system
Height	1m to 8m	Battery Backup	5 days minimum
Cross-sectional Dimensions	180mm x 180mm	Battery Cycle Life	>10,000 cycles
Warranty	10 years	Thermal	Insulation protection
System Design Life	>12 years	Connection	1.5mm copper strip
System Voltage	12/24V_{DC}, 48V & PoE available	Replacement	>12 years
Wind Resistance	~250km/hr wind	Battery Capacity	3.5 times maximum load
Pole Material	T6 6000 series aluminium extrusions (60%+ recycled)	Battery Voltage	13.6 V_{DC}
Design		**Energy Distribution Centre**	
Solar	1.2 x middle of winter irradiance	Material	Powder coated galvanised sheet metal
System Autonomy	5 days backup from solar and battery systems	Terminal	Wago 2002 series
Exterior	Shatterproof glassless solar modules	Isolation	Lever blade isolation
Structure	>250km/hr wind (Category C Cyclone)	Control System	Maximum power point tracking
Pole	Lightweight aluminium design	Voltage	12/24V Auto sense
Components	Internally mounted modular assembled design	Circuit Protection	Mini blade fuse
Solar Panel		**Pole**	
Technology	Monocrystalline cells	Material	T6 6000 series aluminium
Encapsulant	Shatterproof glassless polymer	Coating	2 step architectural anodise
Life Expectancy	>15 Years	Estimated Life	>30 Years
Solar Efficiency	17-19%	Process	Extruded
Connection	Waterproof 30A connection system	Base	Base hinge pole type
Voltage	28 V_{OC}	Foundation Bolts	20mm
		Colour	Black or natural anodised

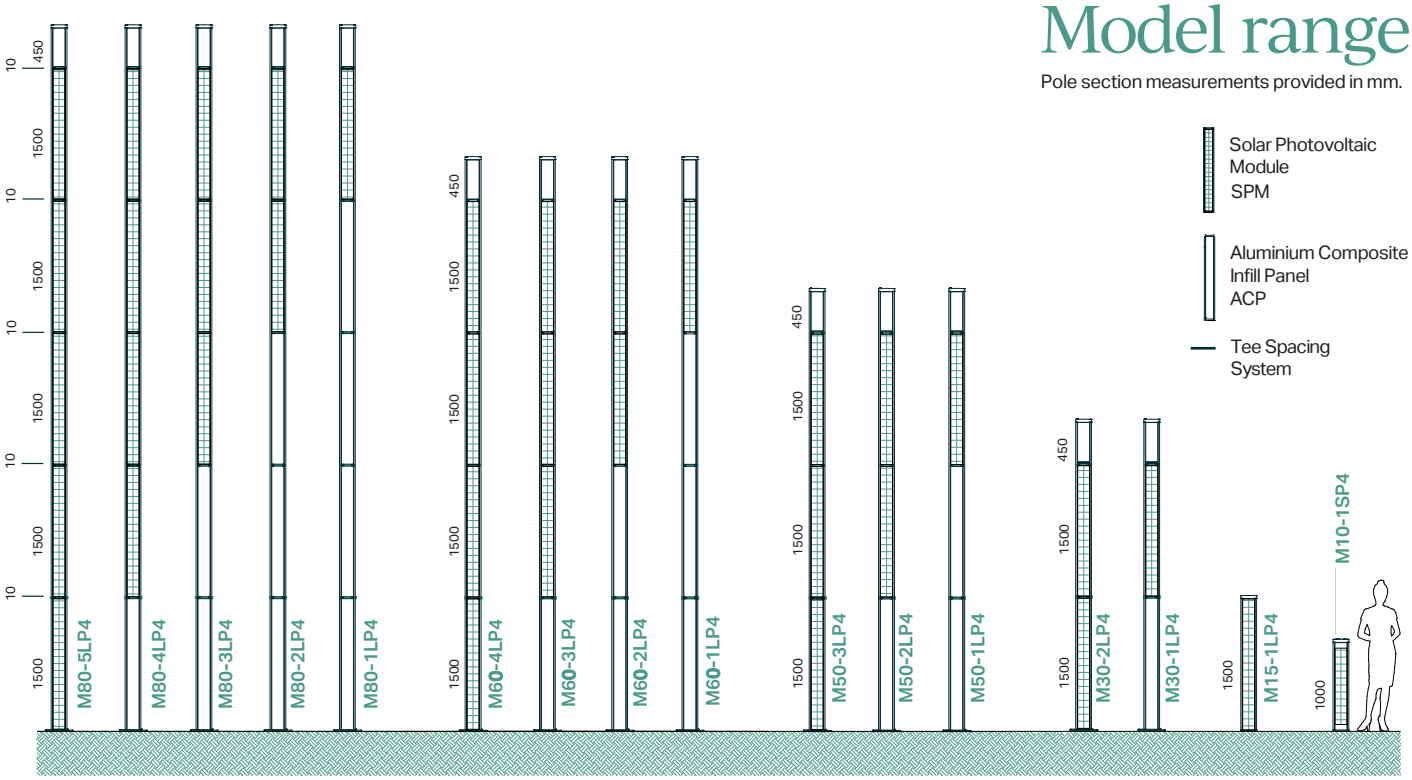
10
YEAR WARRANTY

60↓
MINUTES INSTALL TIME

+5
DAY BATTERY BACKUP

Model range

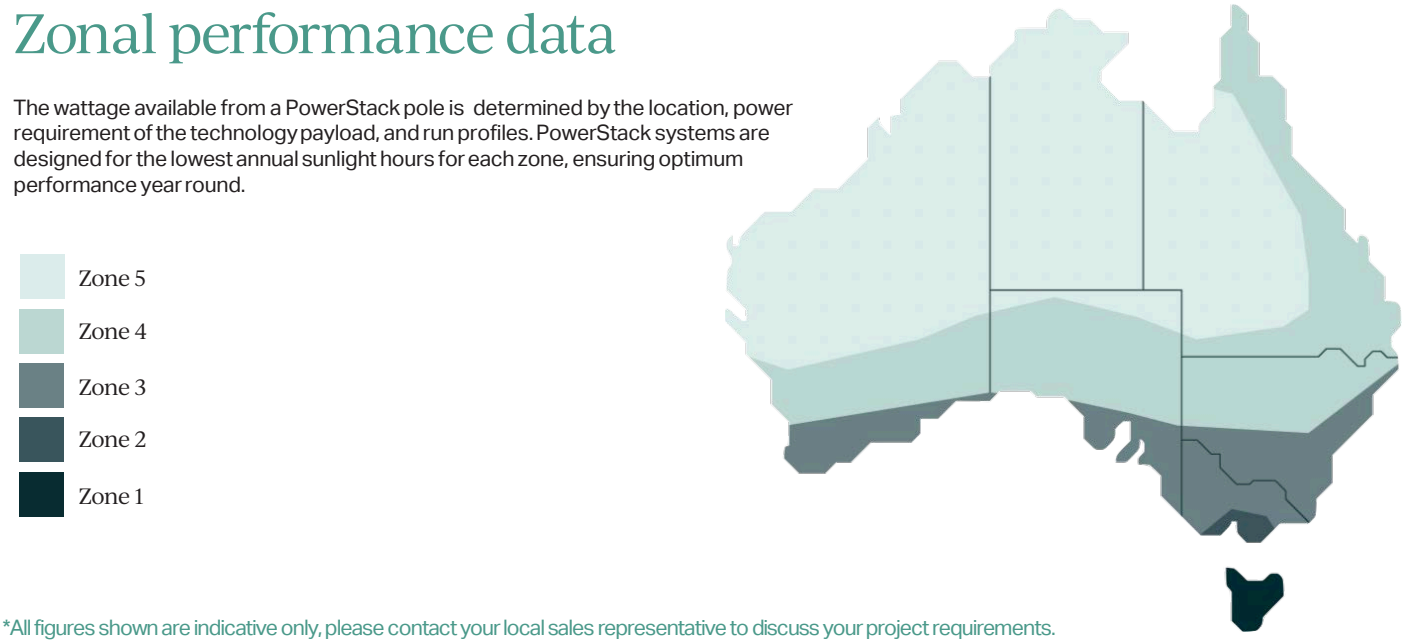
Pole section measurements provided in mm.



All systems are sized for a back up of 5 days in winter sun conditions based on the load and panels selected. All sizes in model no. are nominal sizes. Higher poles available upon request.

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.



*All 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
Day/Night (DN) 24/7 operation	APS-M10	1	2	3	4	5
	APS-M15	4	6	6	11	13
	APS-M30	8	13	18	22	28
	APS-M50	14	20	28	34	42
	APS-M60	18	26	37	45	56
	APS-M80	23	33	47	57	66