



MAKO SOLAR area light package

20W Mako area light with pole-top 130W solar engine

Self-contained solar package including:
 Mako heavy duty area light - 20W
 Solar engine comprising 130W solar panel, cables, lithium ion batteries, smart controller
 Poles not included.



130W Solar engine

Panel:

Third generation high performance modular design
 Quality 130W monocrystalline solar panel

Battery compartments:

Lithium ion batteries - LiFePO4. 998Wh capacity
 Battery compartments are secured under the panel

Smart Controller:

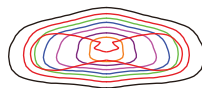
Smart controller manages power input and output

Rock-solid build structure:

Robust aluminium anti-corrosion frame structure
 Stainless steel fixings
 Rated IP65 and IK08 for impact resistance.

Mako light fitting - 20W - 3000 lumens

Sleek design also prevents build up of corrosive materials.
 True industrial quality components for heavy duty
 Polycarbonate lenses - no glass.
 Rated IP67 and IK10.
 T2M Batwing lenses are standard, with T4M and other lens options available.



MAKO
 SOLAR LIGHT

Poles not included

Applications

- Solar lighting around industrial plants, mining camps, outbuildings, storage & loading yards, muster points, fuel points.
- Access gates, car parks, security perimeters, internal roads & tracks, walkways and crossings.

AUSTRALIA-WIDE SPECIFICATION

20W/130W system is standard for use Australia-wide.
 30W/130W system also available for some Northern locations.
 Consult your Tigerlight representative for more information.



Mounting & Pole specifications

Face solar panel towards North.
 Orientate the Mako area light to the required direction.
 Plug and play cable connector supplied.

Spigot sizes:

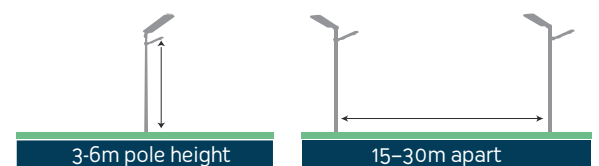
Solar panel - 90mm
 Mako fitting - 37mm.

Pole sizes:

Solar panel - 75-90mm OD
 Mako fitting - 32-35mm OD.

Mounting heights & spacings

Recommended Pole Height (m) Recommended Spacings (m)



NB Poles not included



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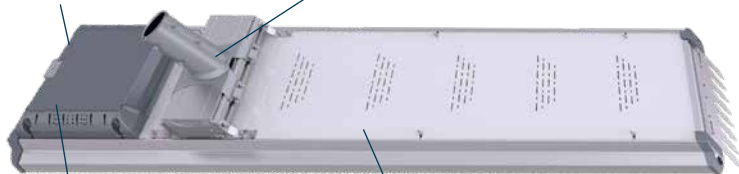
Solar Engine 130W

130W monocrystalline solar panel



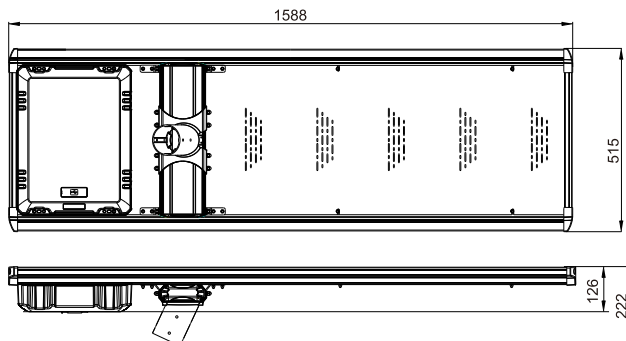
Compartments for lithium iron phosphate batteries

Tenon bracket with preset angle for pole-top mounting. Pole OD 75-90mm

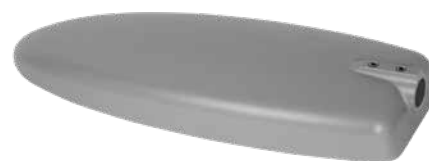


Smart controller unit to optimise battery charging and discharge

Sturdy aluminium frame IP65 casing accessible for maintenance



Mako Area Light 20W

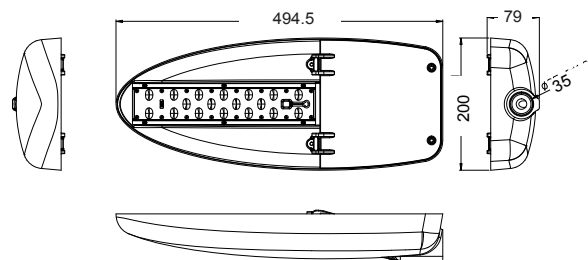
 37mm spigot entry
- Spigot OD 32-35mm


Sleek design to prevent build-up of dirt and debris



Standard optical lenses are asymmetric T2M2 or T4M.

20W module with polycarbonate lens plate. No glass.



Technical parameters

Power of Solar Module	130W
Type of solar panel	Monocrystalline
Lithium Battery Capacity	998Wh (Higher capacity for southern states)
Output voltage	12.8V DC
Structural Composition	Aluminium frame and stainless fixings
Net weight of panel	27kg
Dimensions	1588mm L x 515mm W x 126mm D
Controller type	Smart controller to optimise charging
Charge temperature	0 - +60°C
Discharge temperature	-20°C to +60°C
EPA	0.41 sqm
Wind load rating	209 km/h
Exterior colour	Grey
Top of pole tenon OD	75-90mm

Mako area light fitting	20W
Input voltage	12V DC
LED chips / DC to DC supply	Nichia / Meanwell
Luminous flux / efficiency	3000lm. 140+ lm/W
Colour temperature / CRI	5000K / RA >70 or Amber
Light distribution	IES Type II Medium. T2M2 / T4M.
IP Rating	IP67
Working temp / EPA	-40 to 50 °C / 0.076m2
Service life / warranty	>50,000 hours / 3 years
Composition - lenses	Polycarbonate
- Housing/heatsink	Cast Aluminium
- Protective coating	Polyester (100µm min)
Spigot entry / spigot OD	37mm entry / spigot OD 32-35mm
Exterior colour	Grey
Weight / Dimensions LxWxD	5.88kg / 495 x 200 x 75mm

Product codes - Solar Mako SL020MAKO-12V (5000K) SL020MAKO-AM-12V (Amber) Other Lenses and CCT options are available on special order.
 - Solar engine SNCORSO130 **NB POLES NOT INCLUDED**