



MAXI G3 SOLAR LIGHT TOWER

SOLAR LED STREET LIGHT TOWER



INSTALLATION | WARRANTY

MAXI G3 SOLAR LIGHT TOWER

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MAINTENANCE | INSTALLATION | WARRANTY

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5 YEAR WARRANTY
*ON LUMINAIRE



4 DAYS BATTERY AUTONOMY



DAYLIGHT SENSOR
*OPTIONAL



LITHIUM BATTERY



SPECIFICATIONS

	MAXI G3 50 SOLAR LIGHT TOWER	MAXI G3 90 SOLAR LIGHT TOWER	MAXI G3 50 TWIN SOLAR LIGHT TOWER
Model	ETG-01TM016	ETG-01TM017	ETG-01TM019
Luminaires	ETG-21MD042	ETG-21MD043	ETG-21MD042
Power (W) x Quantity	50W x 1	90W x 1	50W x 2
Total Lumen Output	7000	12600	14000
Colour Temperature	4000K	4000K	4000K
Outreach arm	Single - 1.5m outreach	Single - 1.5m outreach	Twin - 1.5m outreach
Solar Panel (W)	400W		
Solar Panel Tilt	30°		
Solar Panel Rotation	360°		
MPPT Controller	Smart MPPT controller		
Lighting Control	Intelligent lighting control		
Battery Autonomy	4 days		
Luminaire Height	7.1m		
Total Height	7.6m		
Pole Finish	Hot dip galvanised		
Pole Type	Mid-hinged		
Electrical Enclosure	Vandal-proof, water/dust resistant enclosure with cooling fan		
Block Dimensions (mm)	1600 x 1600 x 600		
Concrete Base Weight (t)	4		

Battery Specs

Part No.	ETG-14TB012	ETG-14TB013	ETG-14TB013
Chemistry	ELION LiFePO4 - Lithium ion phosphate		
Battery System	3.58kWh	5.63kWh	5.63kWh

The performance of this product may vary due to climate or seasonal factors that affect the available daylight hours or intensity of sunlight (ie. Persistent cloudy or inclement weather). This product requires at least 6-8 hours of full sunlight, over 2-3 days when first installed to achieve full brightness. If this is not achieved, the product may produce substantially lower lux levels than specified, even when at 100% operation. Customers are advised to discuss this with their Earthtrack representative when selecting solar products for their site location.

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IMPORTANT!

- » To ensure safe installation, isolate power by the lockout switches located on outside of box.
- » 24V DC System (Refer to owner's manual).
- » The pole was designed in accordance AS1170 for "Region D" Cyclone Rated Areas.
- » For access to the battery and solar controller and when the pole is to be tilted into the maintenance position make sure the battery is isolated.
- » As this operation will expose pinch points, safe work procedures must be adhered to per site specific for maintenance.
- » For Category D Wind Regions, please discuss any additional requirements with Earthtrack.
- » **Important note:** The current Solar Tower Model Controller Parameters are now factory set in compliance to the Client's Functionality Requirements - NO CHANGES need to be made to the parameters of the controller on site. If changes are made by the Client, this may void service warranty, resulting in Earthtrack Team attendance cost.

MAINTENANCE



SOLAR PANEL & LAMP CLEAN

3 MONTHLY*

Clean down the solar panels and lamp casings with a damp microfibre cloth. Hosing down is suitable if a more thorough clean is needed to remove dust and grime build up.

**More frequent cleaning maybe needed in extreme and dusty environments*



BATTERY CHECK & ANALYSIS

ANNUALLY

For optimum performance check the battery annually using a battery tester/ analyser.



CHANGE FILTER

3 MONTHLY*

Replace vent filter every 3 months for best performance and to prevent damage.

COMPONENTS FOR MAXI G3 TOWER RANGE

	ETG-01TM016	ETG-01TM017	ETG-01TM019
Earthsolar Panel	ETG-21SP051	ETG-21SP053	ETG-21SP053
Earthlight Metro Curve DC	ETG-21MD042	ETG-21MD043	ETG-21MD042
MPPT Solar Charger	ETG-21EC074	ETG-21EC074	ETG-21EC074
Filter Vent	ETG-21VF048	ETG-21VF048	ETG-21VF048
Filter Vent With Fan	ETG-21VF047	ETG-21VF047	ETG-21VF047
Filter	ETG-21VF049	ETG-21VF049	ETG-21VF049
Elion Lithium Battery	ETG-14TB012	ETG-14TB013	ETG-14TB013

To receive a quote, kindly send us an email to sales@etms.com.au with the part number and quantity.

Earthtrack offers lighting tower maintenance and upgrade service contracts, please contact us for more information.


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STEP-BY-STEP INSTALLATION GUIDE

1 CLEAR AREA & PLACE THE CONCRETE BASE

 Clear a suitable flat area for the safe install of the Earthtrack Maxi G3 Solar Street Light.



Use suitable rigging equipments to position the concrete block. The concrete block has forklift sleeves to lift into place.

Unbolt the 4x M24 bolts from the concrete base.

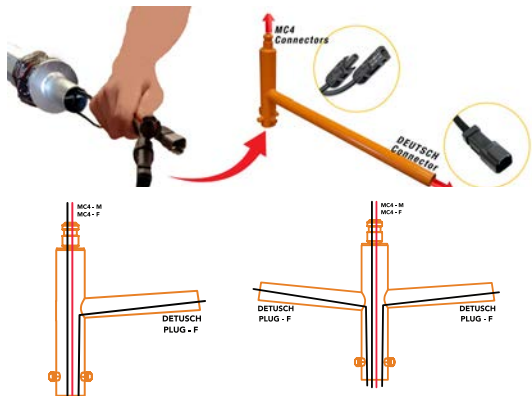
2 PREPARING THE BREAK-BACK POLE TOP



Unwrap the top of the break-back pole and pull all three harnesses outside.

 2 x MC4 (male & female) | 1 x Deutsch (female).

3 PREPARING THE MOUNTING HEADS



Feed the cables through head mounting cylindrical bar through the bottom end. MC4 connectors should come through the top end and Deutsch connector through the other end.

4 CONNECTING SOLAR PANEL TO THE POLE



Pull out the MC4 cables from the solar panel mounting spigot.




Feed the MC4 harnesses through the solar panel spigot square opening and take them out through the cut opening. Connect the MC4 connectors, and push back through the opening. (above picture shows only one connector for demonstration).

5 MOUNTING SOLAR PANEL FRAME HEAD FRAME



Mount the solar frame to top of mounting frame and secure the **M18** Bolts

 Make sure no excess cables stretch outwards.

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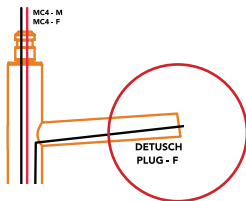
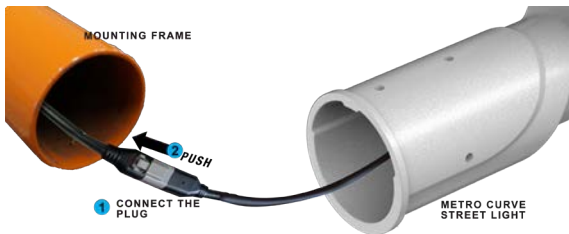
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6 CONNECTING THE LUMINAIRE



Remove LED lights from the box and feed the harness through the spigot mount and then lock the spigot mount to the MetroCurve Street Light, adjusting angle as required.



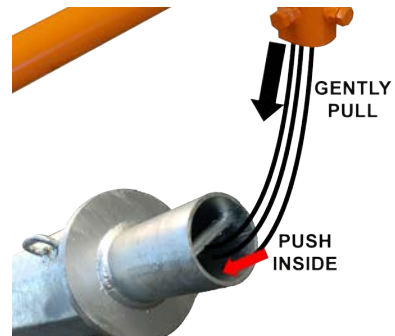
Connect the MetroCurve Street light harness to the harness fed through the cylindrical mount. Then push back all the excessive harnesses through the pole.

 Make sure no excess cables remain outwards.



Connect the light spigot to the head mount and secure it with the bolts on the luminaire spigot.


7 MOUNTING THE HEAD FRAME TO THE POLE



Gently pull the harnesses from the bottom end to avoid bending and curling inside the pipe, and push inside the break-back pole.




Lift the headframe and mount it on top of the break-back pole and secure the head frame by tightening the **M18** bolts. Once secured connect the safety chain to and head frame hook.

 Fully mounting the head frame will require two people. Please wear the appropriate protective equipments (PPE).

Make sure fingers/ hands or clothing are not in way when lowering and positioning pole to avoid injury.



Use a crane to lift the pole and align the base plate to the concrete base. Carefully bolt the base plate using the **M24** bolts on the concrete base.

 Do not release the crane lifting until the base plate is fully bolted to the concrete base.

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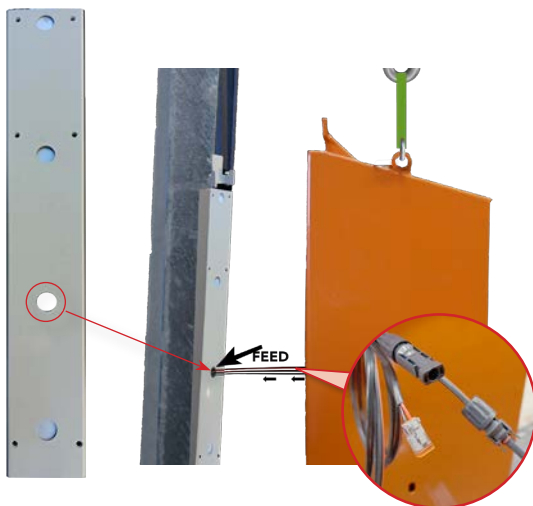
8 MOUNTING THE CONTROL BOX



Open the door by unscrew the thumbscrews or knob and remove the **M12** bolts from the control box and close the door carefully before lifting.



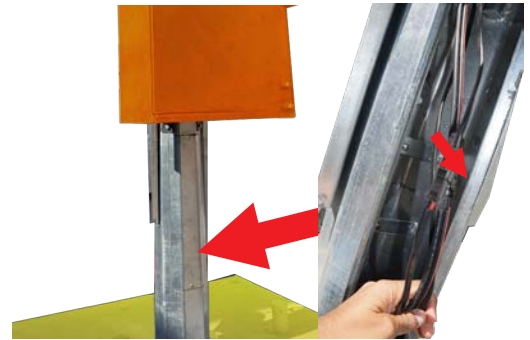
Insert the sling through the shackle and lift the Maxi G3 control box.



Lift the box using a crane and bring it closer to the mounting panel on the pole. Remove the cable tie behind the box and feed the harness through the pole. Once all the excessive harnesses are fed through the hole, hang the Maxi G3 control box to the mounting plate.

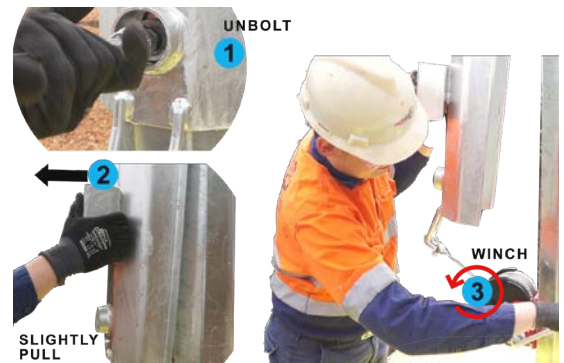
i Maxi G3 control box has 6 bolting holes 4 inside and 2 outside at the bottom. Secure them with the M12 bolts before releasing the crane lift.

9 CONNECTING PV AND LIGHT TO THE CONTROL BOX



Open the inspection panel using an Allen key and connect the MC4 and Deutsch connectors.

10 CABLE MANAGEMENT



1. Unbolt the break-back pole.
2. Pull the pole slightly to the back.
3. Unwinch to break-back the pole.
4. Assess the counterweight cut-out, safely clip all the harnesses to the P-Clip



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12 ALIGNING THE POLE



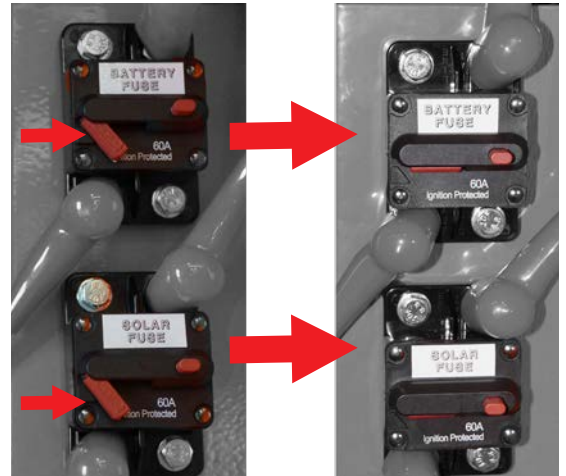
Use the winch to straighten up the pole, then secure the bolts to attach the break back to the base mast.

Bolt into position.

i Use a padlock to secure the pole.

Unscrew to remove winch handle. Place inside the control box for extra safety.

13 ACTIVATING THE PV AND LIGHT



Open the control box and switch on the fuses by pushing up the actuator lever on both battery and solar fuses.



Close the door. Secure with a padlock if needed.

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TROUBLE SHOOTING GUIDE

PROBLEM

SOLUTION

LED LIGHTS ARE NOT TURNING ON AT SUNSET.

CHECK THE SOLAR PANELS ARE FACING NORTH

CHECK TIME + DATE

THE CONTROLLER SYSTEM IS PRE-SET WITH SITE CONFIGURATIONS AND WE RECOMMEND ARE NOT CHANGED. IF CHANGES HAVE BEEN MADE TO ANY SETTINGS, CONTACT THE MANUFACTURER.

IF BATTERIES ARE MORE THAN 3 YEARS OLD, THE BATTERY MAY BE AT THE END OF ITS LIFE (IF SETTINGS HAVE BEEN CHANGED IT MAY MAKE ALSO SHORTEN BATTERY LIFE).

LED LIGHTS ARE NOT LASTING THROUGH THE NIGHT OR ARE TURNING ON DURING THE DAY.

CONTACT MANUFACTURER, AS THIS MEANS CONTROLLER HAS BEEN TAMPERED WITH AND SETTINGS HAVE BEEN CHANGED.

SETTING DIFFERENCES FOR WINTER VS SUMMER.

NO. LIGHTING TIMES WILL NOT VARY.

NOTE: THERE MAY BE PERFORMANCE ISSUES USING SOLAR LIGHTING DURING WINTER AND/OR IN CLIMATES WHERE SUNLIGHT IS LIMITED FOR EXTENDED PERIODS. IF THIS APPLIES TO YOUR REGION, ALTERNATIVE LIGHTING OPTIONS MIGHT BE RECOMMENDED.

WATER HAS BEEN ALLOWED INTO THE BATTERY CASING.

ISOLATE AND DRY OUT. TEST BATTERIES AND TURN ON AGAIN AS THE CONTROLLER IS IP65 (WATER/DUST RESISTANT)



PLEASE NOTE | INITIAL SETUP

Batteries are charged prior to dispatch, however, we recommend to allow a full day of sunlight to fully charge the battery before use.

WARRANTY



1. Earthtrack Manufacturer's Warranty
 - a. Earthtrack Group Pty Ltd (EarthLight™, EarthSolar™, Maxi G3™), warrants to the original buyer ("Buyer") that all Earthlight products will be free of significant defects in materials or workmanship, provided that the Products are installed in accordance with the Earthlight installation and operation instructions and any electrical work is carried out by a licensed electrical contractor, for a period specified from the date of purchase from Earthtrack or an authorized reseller or wholesaler.
 - b. Solar Towers: Five (5) year warranty applies to concrete block and structure / Solar Panel and Controller / specified LED light fitting; One (1) year warranty for batteries.
2. Full Warranty Terms and Conditions are available from www.earthtrackgroup.com.au

WARRANTY CONTACT DETAILS - AUSTRALIA

By Post: 34 Remisko Drive, Forrestdale WA 6112
PO BOX 551, Kelmscott WA 6991

By Email: sales@etms.com.au

Telephone 1300 410 485 (Australia)
Enquiries: +61 8 8399 8485 (outside Australia)

WARRANTY REGISTRATION

Warranty is pre-registered by Earthtrack for every lighting tower purchased with Certification Plate details.

When reporting a Warranty job, please record the Serial Number and this information will be used to track the specifications and date of purchase.

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WARRANTY CONTACT DETAILS

BY POST | 34 Remisko Drive, Forrestdale WA 6112

BY EMAIL | sales@etms.com.au

TELEPHONE ENQUIRIES | 1300 410 485 (Australia)

WARRANTY REGISTRATION CARD

Please fill in this card and return via POST or EMAIL to the details above.

WARRANTY CONTACT

Company Name:

First Name: Last Name:

Email: Contact Number:

Street Address:

.....

Suburb: State: Postcode:

DEALER OR SALESPERSON INFORMATION

Company Purchased From: Sales Person (if known):

State:

PRODUCT INFORMATION

Purchase Date: Installation Date:

Product Series and Model Name:

Product Model Code:

Serial Number or Batch Code (BC):

PLEASE MAKE A DUPLICATION OF THIS FORM IF YOU HAVE MULTIPLE PRODUCTS REGISTER.

To assist with processing Warranty Claims faster, please provide a photograph of the fitting (front and back Earthtrack respects your privacy and your details are held in accordance with our Privacy Policy.

PLEASE KEEP A COPY OF THIS CARD FOR YOUR OWN RECORDS.

© Earthtrack Group Pty Ltd, September 2023

Earthtrack Group reserves the right to amend the provisions, clauses or applications of this Limited Warranty from time to time without notice



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WHAT EARTHTRACK OFFER



INDUSTRIAL LIGHTING OPTIONS

INCLUDING SOLAR, THAT ARE LEADING EDGE TECHNOLOGY & MEET MINE SPECIFICATIONS



WIDE STOCK RANGE FOR FAST TURNAROUND

OF ORDERS & NATIONWIDE DISTRIBUTION NETWORK



SPECIALTY-RATED PRODUCTS

ICEX EXPLOSION PROOF OR HAZARDOUS AREA LIGHTING, IP68++ MARINE SUBMERSIBLE, IK10+ VANDAL/IMPACT PROOF LIGHTING



EXCLUSIVE SUPPLIER ARRANGEMENTS

FOR AUSTRALASIA



10 YEARS OF PROVEN EXPERIENCE

FOR RELIABLE SOLAR LIGHTING SOLUTIONS FOR REMOTE, HARSH ENVIRONMENTS



ENVIRONMENTALLY FRIENDLY OPTIONS

USING SOLAR/HYBRID TECHNOLOGY FOR ULTIMATE LOW OR NO EMISSION OPERATION



IN-HOUSE STEEL & ALUMINIUM FABRICATION & ASSEMBLY

AUSTRALIAN MADE LIGHTING TOWERS, ACCESS PLATFORMS & WORK STANDS



IN-HOUSE LIGHTING & FABRICATION DESIGN TEAM

FOR BESPOKE LIGHTING SOLUTIONS & ADVICE



PREFERRED SUPPLIER VENDOR ARRANGEMENTS

WITH RIO TINTO, BHP & OTHER MAJOR MINING COMPANIES

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Sales Executive

LAWSON BAKER





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0490 549 190



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