

## **EARTH SOLAR LED LIGHTS**



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The information in this booklet is correct at time of printing. Please refer to the website etms.com.au for any further updates.

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#### SOLAR ACCESSORIES Solar Panel | Elion LiFePO4 Lithium Battery Compact 12V | 24V | Standard 12V | Deep Cycle Battery | MPPT Controller Standard | MPPT Controller High-end |Remote Programmer | Concrete Blocks



Scan the QR code to download the PDF



29-38

4-8



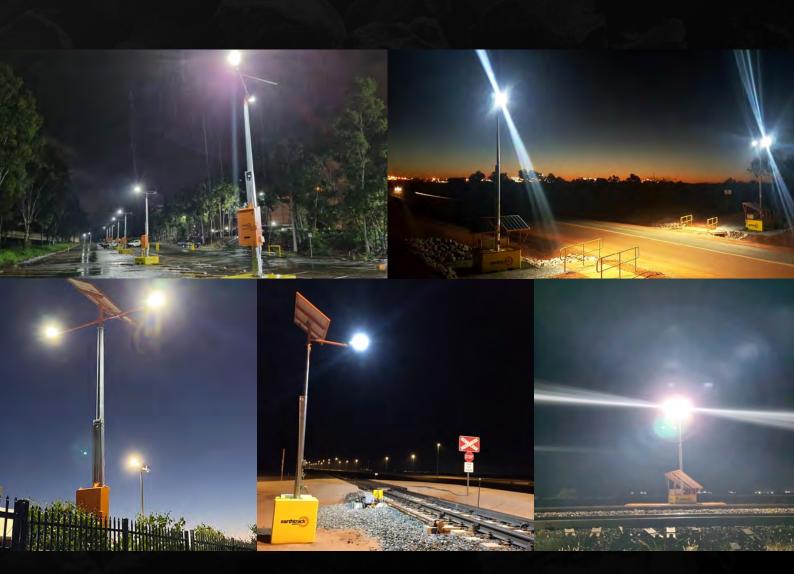
## **SOLAR TOWERS**

SOLAR MEGA TOWER - G2X

SOLAR MAXI TOWER - G2

**ELION SOLAR STREET LIGHT** 

**SOLAR MINI TOWER - G2** 







- >> Better lumen output, smaller compact lights
- >> Higher charge efficiency for longer lasting lighting
- >> Easy upgrade for existing towers
- >> 6 Metre break back galvanised pole with synthetic cable
- >> Heat shield kit for greater insulation
- > 24V Lithium LiFePO4 Battery
- >> Lighting time up to 2 ~ 3 days with minimum sunlight
- >> Optional CAT-D region upgrades

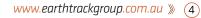
#### **IDEAL FOR**

Mine sites, Temporary construction sites, Remote operations, Industrial applications, Interchanges, Depots

MODEL NUMBER	DEL NUMBER ETG-SLMT200-G2X ETG-SLMT400-G2X		ETG-SLMT600-G2X	
Luminaires	2	4		4
Lumen (lm)	16,280	32,560		42,550
Solar Panel (W) x Quantity	400W x 2	400W x 4		400W x 4
Luminaire Input	24VDC	Pole Height (m)		6
LED Chips	5050	Winch	Rock break winch (synthetic cable)	
Luminaire Body	Aluminium + PC Lens	Base Dimensions (mm)	1600 x 1600 x 600	
Operating Temperature	-30° to +45°C	Base Weight (tonnes)		4.5
Adjustable	360°(Rotate) / 270°(Tilt)	Fork-lift sleeves		Yes
Battery	LiFePO4 - Elion Lithium battery	Optional Upgrades		CAT-D Region 1.5m <sup>3</sup>
IP Rating	IP67 [Luminaires] IP68 [PV Panels, Cables, Connectors & lockout switch]	kout Battery box Lockable vente		ockable vented with cooling fan
Pole	Galvanized Finish	Installation Manual		Included

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.

Model shown may differ from the actual model due to changes since publication date













### EARTHSOLAR MAXI SERIES G2 SOLAR LED STREET LIGHT

- >> Easy maintenance breakback pole
- > Rock break winch with synthetic cable
- >> Lithium LiFePO4 Battery
- >> Heat shield kit for greater insulation
- >> Lighting time up to 3 7 days with low sunlight

MODEL NUMBER	ETG-SLMT90-G2	ETG-SLMT90-G2 ETG-SLMT140-G2			
Light Fixtures	Single	Twin			
Lumen (lm)	9800		14,000		
Solar Panel (W)	330		400		
Solar PV Dimension (mm)	1640 x 980 x 40		1956 x 992 x 40		
Base Dimensions (mm)	1000 x 1000 x 1000		1400 x 1400 x 800		
Weight (tonnes)	2.5		4		
Pole Height (m)	4	6			
*Full Height (m)	6	8			
LED Source	Nichia Chip (Japan)	LED Driver	Sosens + 10KV SPDD		
Voltage (VDC)	12-24	Luminaire Body	Aluminium alloy + PC Lens		
Rotatable	360° (head frame)		IP66 (Light Fixture)		
Fork-lift Sleeves	Available	IP Rating	IP68 (PV Panel, Cables, Connectors, lock out switch)		
Battery	Elion™ Lithium Battery (LiFePO4)	Pole	Galvanised Finish		
Installation Manual	Included	Battery Box	Lockable with Cooling Fan		
Optional Upgrades	Cyclone rated 1m	Cyclone rated 1m <sup>3</sup> -1.5m <sup>3</sup> Concrete block			

 $\boldsymbol{*}$  Different wattages may be available upon request

\* For Category D - Kit available

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### EARTHSOLAR ELION POLE SOLAR LED STREET LIGHT

- >> Vandal resistant, secure control box
- > Powerful, long lasting lithium battery technology with intelligent features
- > Easy access and ergonomic control box for maintenance
- >> In-ground or concrete box mounting options rated for Category D regions
- >> Plug & Play pre-programmed intelligent controller automatic on/off
- >> Heat dissipation optimized design, with cooling vents and fan
- > Premium winch and counterweight construction for easy pole lowering
- 3~4+ days of autonomy
- > 6m pole heights



earthtrack

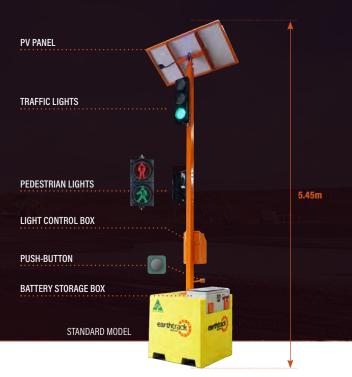
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MODEL NUMBER	ETG-ESPL50	ETG-ESPL90		ETG-ESPL50-TWIN
Power (W)	50	90		100
Lumen(lm)	7,000 lm	12,600 lm		7000 lm x 2
Battery Storage (LiFePO4)	150 Ah (24V)	200 Ah (24V)		200 Ah (24V)
Optional Upgrade		Cyclone rated 1m <sup>3</sup> -1.5m <sup>3</sup> Con	crete blo	ck
Input Voltage (Luminaire)	24V DC	Solar Panel		12/24V DC (310 Monocrystalline)
LED Chip	Nichia - Japan	Solar PV Power		400W
Light & Panel Rotate	360° (Adjustable)	360° (Adjustable) Luminaire Body		Aluminium alloy + PC Lens
IP Rating	IP66 (Luminaire)   IP68 (PV Pane	el) Concrete Block		With forklift sleeves
Pole Height (m)	6	6 Pole		Galvanised finished
Battery	LiFePO4 - Lithium battery	FePO4 - Lithium battery Pole Type		Break back - manual winch tilt
Installation Manual	Included	Included Battery Box		Lockable, vandal resistant & vent fan
BASE OPTIONS	DESCRIPTION			CODE
Concrete Base	1400 x 1400 x 800 - 4 Tonne			ETG-CB1405
Concrete Base	1600 x 1600 x 60	x 600 - 4 Tonne		ETG-CB1606
Rag Bolt Cage	24mm galvanized bolts,	24mm galvanized bolts, 4x M24 at 350PCD		ETG-RBC

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- >> Easy access to the pedestrian button
- >> Water/Dust resistant

- >> Elion Lithium battery power storage
- >> Monocrystalline grade A solar panel
- >> Powder coated 4m pole
- >> Sturdy system for harsh environment
- >> Concrete base with forklift sleeves

#### **IDEAL FOR**

Mine sites, Temporary construction sites, Remote operations, Industrial applications, Interchanges, Depots









MODEL NUMBER	ETG-SLTL01	
Solar Panel	360 Monocrystalline	
IP Rating	IP68: Solar Panel, Cables Connectors, lockout switch   IP55: Traffic Light modules, Control Enclosure	
Controls	Fully customisable	
Battery	Elion™ Lithium Battery (LiFePO4)	
Standard Height (m)	5.5	
Base Dimensions (mm)	1000 x 1000 x 1000	
Base Weight (tonnes)	2.5	
Fork-lift Sleeves	Available	

\* Light modules can be fully customisable

\* For Category D - Kit available

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### EARTHSOLAR MINISERIES G2 SELF-CLEANING LED STREET LIGHT TOWER

- >> 7-10 night lighting, even through rainy or cloudy weather
- >> All-in-one solar lighting modern, streamlined design
- >> Automatic dust sweeping function keeps panels working at optimal efficiency
- Intelligent day/night sensors and lighting modes (100% 5 hr + 20% till dawn)
- >> IP65 dust and waterproof
- **>** Robust aluminium alloy and polycarbonate materials



MODEL NUMBER		ETG-SLMT40-G2		
Power (W)		40W		
Lumen (lm)			40	)00lm
Dimensions - Light Fi	xture Only		903 (l) *410	(w)*105 (h)mm
Luminare Weight			15	5.5kg
Solar Panel			35.7	7W/16V
Battery Capacity		269.36Wh/14.8V		
ССТ	40	000K Light Modes 100% 5H+   20% until Dawn+   C		100% 5H+   20% until Dawn+   ODM
Beam Angle	155	°×60°	Pole Type	Hinged Pole (HRP4)
IP Rating	IP	265	Pole Coating	Anti-Corrosion & Powder coated orange
IK Rating	IK	(10	Pole Height	4m
Operating Temp	Charging -2	20°C ~ +45°C	Concrete Base	750x750x500mm
Operating Temp.	Discharge -20°C~ +60°C		Base Weight	750kg
Charging Hours	s 10 Hours		Total Weight	1650kg
Lighting Days	7-10	Days	Tower mobility	Base with forklift sleeves

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## **DOMINATOR TRAILERS**

SOLAR LED LIGHT TRAILER SERIES

**COMPACT LED LIGHT SERIES** 

HYBRID LED LIGHTING TRAILER SERIES (SOLAR & DIESEL)

DIESEL LED LIGHTING TRAILER SERIES







SOLAR LED LIGHT TRAILER

240°

DOMINA

110° TILT





EASY TOW WATER/DUST PROOF



WARRANTY

A GREAT LIGHTING SOLUTION FOR Civil | Industrial | Road works Mining | Construction | Yards

#### ETG-DSLT900-M-G2

6 x LED 24V DC 4 x 380W solar panels **70,362 Lumens total** Single axle off road Elion Lithium battery Manual operation legs

Weight 135Kg

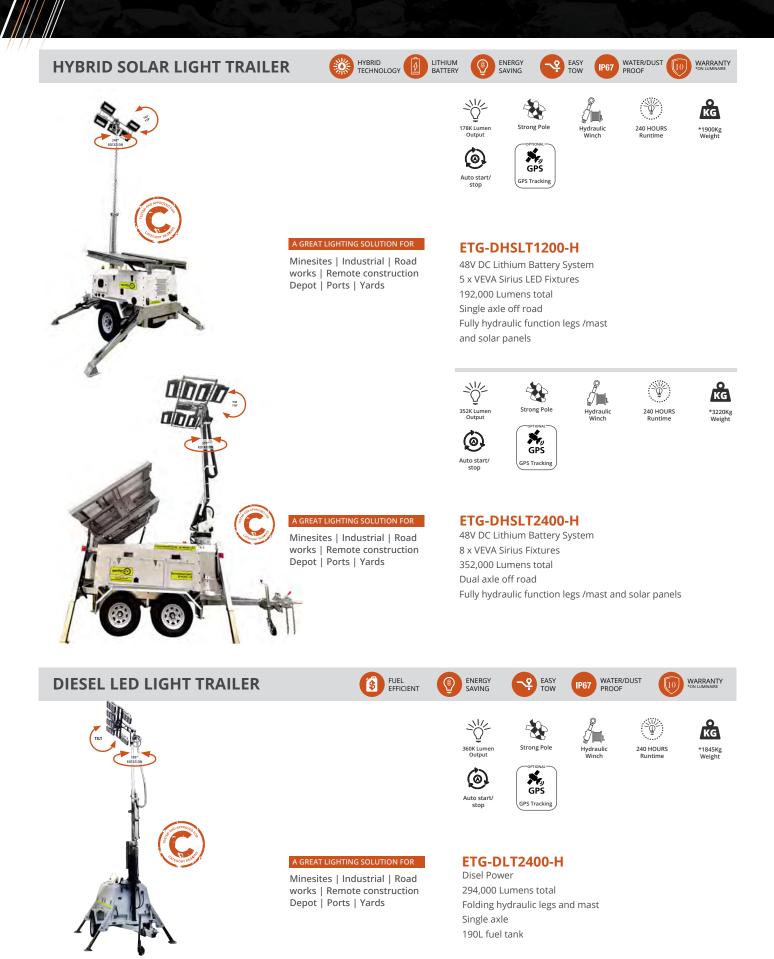
WATER/DUST PROOF AC POWERED PLUG & PLAY **COMPACT LED LIGHT SERIES** LIGHTWEIGHT WARRANTY Ĕ0 **EO** Strong Pole 60K Lumen Output Strong Pole 25K Lume Output Manual Winch 60Kg Weight Wheels 8 Stand Manual Winch 135Kg Weight Wheels & Chocks A GREAT LIGHTING SO A GREAT LIGHTING SO UTION FO Sports fields | Events | Civil Sports fields | Events | Mining Industrial | Road works | Mining Industrial | Road works ETG-CPLT350 **ETG-CPLT600** 5 x LED Soft Lights 4 x 150W Luminaires 100-277VAC Input Voltage 48VAC Input Voltage 25,000 Lumens total without soft cover 60,000 Lumens total Fully extened height 5000mm Fully extened height 5000mm Length 730, Width 730, Height 1500mm Length 1200, Width 880, Height 2260mm

ETG-DSLT900-M-G2

Weight 60Kg



### // Illuminating better environments<sup>\*\*</sup>





## SOLAR STREET/PATHWAY LIGHTS

SOLAR COURTYARD LIGHT

SOLAR ECO STREET LIGHT

**SOLAR PRO PATHWAY LIGHT - SELF CLEANING** 





## SOLAR ECO STREET LIGHT

STREET / AREA LIGHT

#### **FEATURES**

- >> Elegant, compact, all-in-one design
- > Economical solar LED street light option
- >> Environmentally friendly, no emissions
- > Daylight sensor, time setting and infrared controls
- >> Lighting time 5-7 rainy days
- > Low Maintenance

## ReHS CE Day Light & PIR Sensor ON/OFF Switch

BODY COLOUR

#### SUITABLE FOR

Courtyard, Garden, Park, Street, Pathway, Parking lot, Private road, Sidewalk, Public square, Plaza, Airfield, Farm & Ranch, Perimeter Security, Wildlife area, Highway.



Solar Panel+ Battery



Water and dust proof



**Remote Control Function** 



60x120° Lighting Angle



Motion Sensor Control 5-8 metre (Optional)

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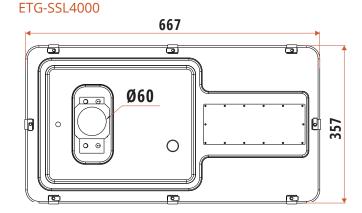
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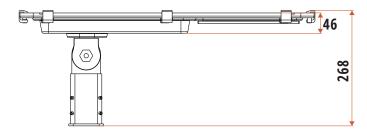


#### SPECIFICATION

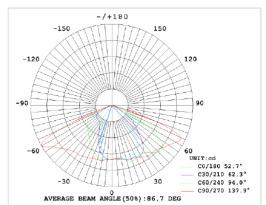
MODEL	ETG-SSL4000	
Power (W)	40	
Luminous Flux (lm)	4800	
Luminous Efficacy (Lm/W)	120	
IP Rating	IP65	
Beam Angle	60° x 120°	
ССТ	4000K - 6500K	
CRI	>70	
LED Chip	LUMILEDS	
PV Voltage when light ON	(Greater than or Equal) >= 5V	
Solar Panel	40W/18V	
LiFePO4 Battery	18AH / 12.8V	
Charging and Discharging time	Charging time 6-8 Hours   6-8 Hours (Light ON)   5-7 Rainy days	
Working Temperature	Charging: 0 ~ 45C   Discharge: -20C ~ +60C   Working Humidity: 15-90%	
Motion Sensing distance (m)	5~8	
Pole Height (m)   dia (mm)	Height: 4 to 8 metre   Ø60	
Net Weight (kg)	6.3	
Dimensions (m) (LWH)	667 x 357 x 70	
Warranty	3 Years	

#### DIMENSION





#### PHOTOMETRIC CURVES





Illuminating better environments

## SOLAR PRO PATHWAY LIGHT SELF CLEANING

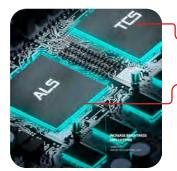
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#### SENSOR and INDICATOR

Day / Night Sensor for automatic ON/OFF and Indicator to show battery capacity

#### SELF CLEANING BLADE Autonomous motorised solar panel dust cleaner





#### Temperature Control System (TCS)

When temperature is over  $65^{\circ}$ C, the TCS will cut off the charging system to protect battery. When below  $65^{\circ}$ C, the charging system will continue to work automatically

#### Adaptive Lighting System (ALS)

When bad weather or lack of sun affects charge, the system will do a smart timing calculation for the remaining battery capacity and give max output efficiency use for long lighting time



**ETG-SPWPROSC040** 

ETG-SPWPROSC060

**ETG-SPWPROSC080** 



ETG-SPWPROSC100

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## $\left. \right\rangle$ Illuminating better environments $^{\sim}$

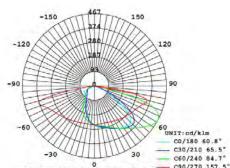
SPECIFICATIONS

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Model	ETG-SPWPROSC040	ETG-SPWPROSC060	ETG-SPWPROSC080	ETG-SPWPROSC100	
Power(W)	40	60	80	100	
Luminous flux (lm)	4000	6000	8000	10,000	
LED Qty	96рс	144pcs	192pcs	240pcs	
Solar Power (W)	35.7W/16V	47.5W/16V	64W/16V	71.4W/16V	
Battery Capacity	269.36Wh/14.8V	384.8Wh/14.8V	538.72Wh/14.8V	654.16Wh/14.8V	
IP/IK Rating		IP65	/ IK10		
Charging Time		10 H	Hours		
Lighting Days		7-10 Days			
Discharging Temp		-20°C ~ 60°C			
Charging Temp		-20°C ~ 45°C			
Light Switching	80Lux ≤ illumina	tion ≤ 120Lux : <b>Stop lighting</b>	$ $ 20Lux $\leq$ illumination $\leq$ 40Lu	ux : Start lighting.	
Light Modes		100% 5H+   20%	until Dawn+   ODM		
Beam Angle		155	°×60°		
CCT(K)		4000	Ra 70+		
Dimensions(mm)	903x410x105	1110x410x105 1386x410x105 152			
Weight (Kg)	15.5	16.5	18.5	20.5	
Body	Aluminium Alloy + PC				
Warranty	3 Year				

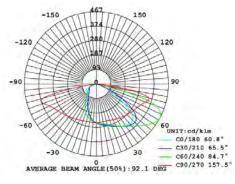
ACCESSORIES

ORDERING CODE	ТҮРЕ	Description
SPWPOLE	POLE	Swivel Pole
TLP7M	POLE	7.5 metre height
CB1405	CONCRETE BASE	1400x1400x500mm



PHOTOMETRIC GRAPH

www.earthtrackgroup.com.au » (16)









## **SOLAR CANOPY / FLOOD LIGHTS**

**ELION SOLAR CONTAINER KIT** 

SOLAR CANOPY LIGHT

SOLAR SECURITY LIGHT





earthsol

Elion

Elion

### ELION SOLAR LIGHTING CONTAINER KIT

ELION SOLAR CONTAINER KIT has everything you need to create off-grid powered lighting. Designed to be used with standard containers or wherever you need power made by the sun.

#### **IDEAL FOR**

Storage Container, Remote Site Office, Off-grid Lighting Solution.

#### **KIT FEATURES**

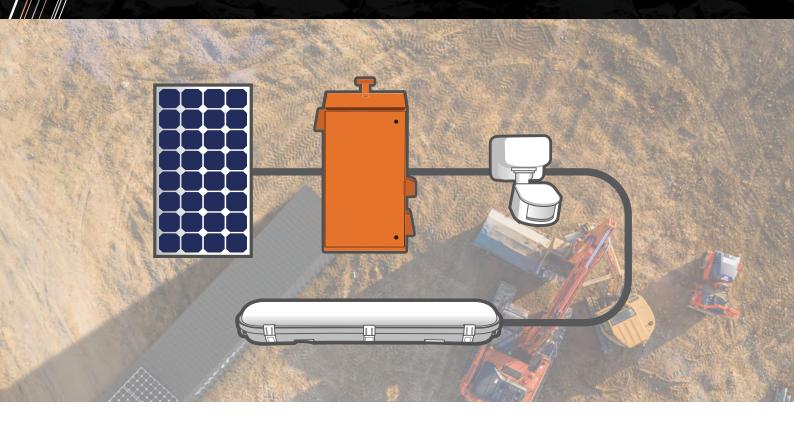
- > Plug & Play Installation
- Motion Sensor Activated
- > 3+ Days of Battery Autonomy\*
- > LiFePO4 Lithium Batteries
- >> Ventilated Lockable Battery Box
- >> Panel Array Rated to Wind Region D
- 300 Lux Average Across Container
- > 12 Hours Per Day Run Time Capability
- Australian Made

#### LUMINAIRE

- > Functional Slimline Design
- >> Durable Polycarbonate Cover
- >> High Luminous Efficacy
- >> Minimum Glare
- >> Vandal and Tamper-Proof
- >> No UV, Lead Or Mercury

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#### SPECIFICATION

Model	ETG-ESCK20 ETG-ESCK40			
LED Luminaire	2 x 20W ZEUS Batten DC Light	4 x 20W ZEUS Batten DC Light		
Total Lumen Output (lm)	3960	7920		
Battery	Elion LIFEPO4 Lithium 150Ah x 1	Elion LIFEPO4 Lithium 150Ah x 2		
Solar Panel (W) x Quantity	400W x 1	400W x 2		
Luminaire Size (mm)	660 x	80 x 75		
Luminaire Weight (Kg)	1.44 (Per Batten)			
Solar Controller	60A			
Panel Size (mm)	1956 x 992 x 40			
Solar Panel Kit Size (mm)	1916 x 2100 x 685			
System Voltage (V)	12			
Battery Enclosure	Powder-coated, Lockable Vented With Cooling Fan			
Enclosure Mounting	Wall-mounted			
Cables	20 Metre Dc Light Cable + 5 Metre Solar Cable			
Sensor	Stand Alone Motion Sensor 12V AC/DC			

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#### **FEATURES**

- > PWM Efficient control system
- > Builtin LiFePO4 Lithium battery
- >> Microwave motion sensor
- >> Smooth lighting distribution

#### **IDEAL FOR**

Garage, Roadhouse, Parking, Carport, Sheds, Horse stables & work areas, Storerooms Power Button MC4 Plugs

Microwave Sensor





Water and dust proof



240° Lighting Angle

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Motion Sensor Dimming

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#### SPECIFICATION

Model	ETG-XSL30-G2			
Power (W)		30		
Lumen (lm)	40	000 (full bright)   2000lm (dim)		
Voltage (V)		12VDC		
Battery	LiFePO4	4 Lithium Battery   12.8V 24Ah 30	07Wh	
Solar Panel (W)		120W/18V		
CCT (K)	5000	0K (Optional: 3000K/4000K/6000	к)	
Luminaire Size (mm)	900 x 92 x 84			
PV Panel Size (mm)	1040x670x30			
Solar Controller Type	PWM			
Sensors	Microwave Sensor (motion detect)			
Light Setting	3hr 100% (Full) + 4hr 50%	(Dim)   When Motion Detecte	ed 80% + 5hr 30% (Dim)	
Functionality	Config	gured for Dusk to Dawn Opera	tion	
Solar Panel/ Grade	Monocrystalline Silicon / Grade A IP Rating IP65 (Luminaire & PV Panel)			
Solar Panel Weight (kg)	9.5 Cable Length/ Connector 5m / MC4			
LED Chips	SMD5730 View Angle 240°			
Charge Hours	5 Hours Illumination Hours >24 Hours			
Operating Temperature (°C)	-20 ~ +60 (Luminaire)   -40 ~ +85 (PV)	Warranty	3 years	





## SOLAR SECURITY FLOOD LIGHT

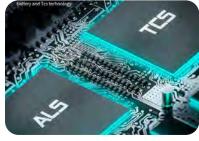
#### **FEATURES**

- > Six lighting modes for indoor or outdoor use
- > Adjustable bright lighting and timer for enhanced night lighting
- >> LED Indicator shows three levels of power capacity
- >> Illuminates 6 to 8+ nights, with or without full sunshine
- >> Robust aluminium alloy, steel and glass construction

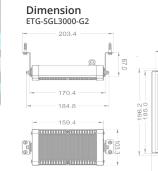
#### **IDEAL FOR**

Garden, Court yard, Park, Community Places, Public square, Plaza, Campus, Airfield, Commercial buildings, etc

#### **TECHNOLOGIES**









Red



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On/Off Button

		- 180.0 -		
Model	ETG-SGL3000-G2		ETG-SGL6000-G2	
Lumen (lm)	3000		6000	
Solar Panel (W)	5		10	
Battery (V - Wh - AH)	3.7V 28.86Wh 2.6Al	н	3.7V 57.72Wh 2.6AH	
LED (Osram)	3030 30pcs		3030 60pcs	
Control Mode	Button Switch, ON/OFF Long Press 1.5s			
Lighting Mode (RC)	M1: 50%   M2: 30%   M3: 20%   T: Max			
Indications	M1: Re	d   M2: Green   M3	8: Red   T: Flashing Green	
Efficiency (lm/W)	190	Charging Time	7.5 hours	
CCT (K)	5700 Lighting Time		>10 days	
Charging	0 ~ 45°C	IP Rating	IP65	
Discharging Temp	-20 ~ +60°C	-20 ~ +60°C Warranty 12 Months		

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## **SOLAR PLAZA / BOLLARD LIGHTS**

SOLAR PRO BOLLARD LIGHTS

SOLAR PRO VANDAL-PROOF BOLLARD LIGHTS

SOLAR PRO PLAZA LIGHTS





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## SOLAR PRO BOLLARD LIGHTS

#### **FEATURES**

- > Environmentally-friendly lighting option
- >> No maintenance required
- > Optional sensor to improve lighting when needed
- >> Water and dust proof rating (IP65)

#### **IDEAL FOR**

Courtyard, Garden, Park, Street, Pathway, Parking lot, Private road, Sidewalk, Public square, Plaza, Airfield, Farm & Ranch, Perimeter Security, Wildlife area, Highway







ETG-SBL002-A

ETG-SBL007-A

Model	ETG-SBL002-A			ETG-SBL007-A	
Power (W)	3.5		1.8		
Lumen (lm)	420			250	
Height (mm)	800	800		1000	
Solar Panel (W)	6	6		4.5	
Solar Charging Time	6 hrs/day	Autonomy		23 Hours / full charge (approx 3 rainy days)	
Li-on Battery	LiFePO4 Lithium Battery - 4.5 AH 6.4 V	ССТ		3000K-6500K	
IP Rating	IP65 ~ IP68 (Smart Controller)	Options		PIR Sensor / Dual CCT	
Body Material	Die cast aluminium & PC	Warranty		3 Years	



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## VANDAL-RESISTANT BOLLARD

#### **FEATURES**

- >> Superior theft and vandal resistant features ideal for public spaces
- > IK10 impact resistant
- >> Water resistant
- >> Invisible 360 degree radar sensor detects movement up to 8m
- >> Anodised marine-grade aluminium stem and tamper-proof fixings
- >> Microwave motion sensor
- > Specifically designed to minimise the ecological impact on local wildlife
- >> 3 year warranty

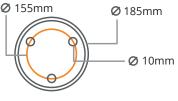
#### **IDEAL FOR**

Courtyard, Garden, Park, Street, Pathway, Parking Lot, Private Road, Sidewalk, Public Square, Plaza, Airfield, Farm & Ranch, Perimeter Security, Wildlife Area, Coastal Beaches, Wet Grassland



**Mounting Options** 





Reinforced baseplate



BATTERY



#### VANDAL-RESISTANT BOLLARD

Max LED Output	Customisable*	Recharge	5 hours (Setting dependent)
Maximum Lumen Output	Customisable*	Mounting	Ground post, wall, or column
Solar Panel	6.3W	Mounting Height (mm)	950mm (300mm Inground stem)
Light Source	Premium directional LED modules	Fixture Size (mm)	Ø 280 x 160
Battery Type	LiFePO4	Finish	UV stabilised high impact polycarbonate
Battery	12AH 3.2V	Compliance	AS/NZS 1158.3.1-PP5
IK Rating	IK10	Standard Stem Colour	Black / Grey
Autonomy	>7 nights (Setting dependent)	*Wildlife Friendly	550nm wavelength
ССТ (К)	Standard 5000K   3000K	*Body Type & Colour	316 Stainless Steel / Custom Colour
Sensor	Daylight + Microwave Motion sensor	Warranty	3 Years

Made in China, distributed by Earthtrack

#### \* Optional features ( ordering codes are listed below)

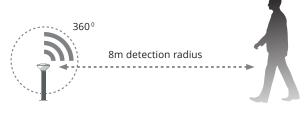
#### PRODUCT CODES INCLUDING INSTALL KIT

MODEL RANGE	Standard (surface mount)	Wildlife (surface mount)	Standard (inground stem)	Wildlife (inground stem)
Standard (Black/Grey)	ETG-VSBL01-A	ETG-VSBL01-AW	ETG-VSBL01-B	ETG-VSBL01-BW
Stainless Steel	ETG-VSBL01-AST	ETG-VSBL01-AWST	ETG-VSBL01-BST	ETG-VSBL01-BWST
Custom Colour	ETG-VSBL01-ACC	ETG-VSBL01-AWCC	ETG-VSBL01-BCC	ETG-VSBL01-BWCC



#### MODE OF OPERATION

Automatic dusk to dawn lighting. The 360° sensor detects movement, increasing the LED output to 100% as you approach, remaining at 100% while movement is detected. The lamp will dim to 30% output (variable) when movement is no longer detected. Fully programmable\* LED output



\*The Vandal-Resistant Solar Bollard is fully customisable and/or programable, this includes lumen output, timed operation or specific individual programming to ensure consistent dusk to dawn lighting in any location.

Disclaimer: Product performance may vary in environmental or seasonal conditions that affect available daytime light levels or intensity of sunlight. Units require initial charging of 6-8 hours full sunshine over 2-3 days to achieve state lux levels and autonomy performance. All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise. This information is general. We take no responsibility for any errors or omissions that impact on your circumstances. Please contact your Earthtrack Representative to discuss your requirements.





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### PRO

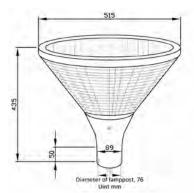
## SOLAR PRO PLAZA LIGHTS

#### **FEATURES**

- > A Grade monocrystalline solar panel
- >> Anti-corrosion, anti-oxidation, high impact PC cover
- >> Automatic intelligent light control
- >> LED Lifespan up to 50,000 Hours
- >> No Cabling, No trenching Easy installation

#### **IDEAL FOR**

Exterior Wall, Plaza, Street, Garden, Park, Roadways, Parking Lot, Courtyard, Campus, Corridors, Side walks, Public square, Airfield, Ranch, Private roads, Beach



Solar Panel+Battery









Model ETG-SPL9400 **IP** Rating IP65 Power (W) 12 Autonomy 18 Hrs(100%) / 42Hrs (Energy Saving mode) Lumen (lm) 1440 CCT 3000K-6500K Solar Panel 18V/25W **Body Material** 6063 Aluminium & PC Battery 12Ah 12V **Body Colour** Black / Grey Pole Diameter (mm) Ø 76 Dimension (mm) Ø 515 (top) | 435 Height Solar Charging Time 6 hrs/day **Optional Features** Smart monitoring/ Microwave Sensor 12.8V 10AH LiFePO4 Lithium Battery Net Weight Battery 6.4kg Beam angle 120° 3 Years Warranty

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.





## CUSTOM SOLAR PRODUCTS | ACCESSORIES

**ELION LIFEPO4 BATTERY - 12V COMPACT** 

ELION LIFEPO4 BATTERY - 24V COMPACT

**ELION LIFEPO4 BATTERY - STANDARD** 

**DEEP CYCLE AGM BATTERY** 

**SOLAR PANELS** 

**MPPT CONTROLLERS** 

**REMOTE PROGRAMMER** 

**CONCRETE BLOCKS** 

**POLES & ACCESSORIES** 





## ELION

LiFePO4 - Compact Lithium Battery

#### OVERVIEW

Experience long-lasting power, rapid charging, and effortless portability with Elion Compact Lithium batteries. They're not just dependable; they're engineered to minimise environmental impact, making them a smart choice for both personal and industrial use.

#### FEATURES

- > Up to 20 times longer cycle life than alternatives, minimising replacement costs
- > About 40% of the weight of comparable lead acid batteries
- > Delivers twice the power and maintains a high energy capacity
- > Automatic 'Battery Management System' for enhanced safety

#### IDEAL FOR

Solar Street Light Towers
Off Grid Power Stations

MODELS	ETG-ELI15-C	ETG-ELI20-C	ETG-ELI35-C	
Nominal Voltage (V)	12.8V	12.8V	12.8V	
Rated Capacity (77°F/25°C)	150Ah @0.5C	200Ah@0.5C 350Ah@0.5		
Charge Voltage	14.6±0.2V	14.6±0.2V	14.6±0.2V	
Charge Current	≤75A	≤75A	≤75A	
Max Connection		2S2P	·	
Monthly Self Discharge		Less Than 2%		
Efficiency of Charge		100% @0.5C		
Efficiency of Discharge		96-99% @1C		
Max.Charge Current (A)		100A		
Standard Discharge Current (A)	75A	75A	75A	
Max. Continuous Current (A)	≤100A	≤100A ≤100A		
Discharge Cut-off Voltage (V)	Approx. 10V			
Charge Temperature	0°C ~ 55°C			
Discharge Temperature	-20°C ~ 60°C ( @60 ± 25% Relative Humidity)			
Storage Temperature	-20°C ~ 45°C			
Battery Case	PI	astic Case / IP65 (Fire Retardant Casin	g)	
Circuit Protection	Overcharge, Overdisc	harge, Over Current, Over Temperatu	re, and Short Balance	
		≥3000@0.2C (100%DOD)		
Cycle Life		≥6000@0.2C (80%DOD)		
Charging/Discharging Terminal		M8		
Dimensions (mm)	330*173*216	490*171*240	521*267*220	
Approx Weight (Kg)	15.0±0.5	20.0±0.5	35.0±0.5	
Warranty (Months)		36		

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# ELION

### LiFePO4 - 24V Compact Lithium Battery

#### OVERVIEW

Elion Compact Lithium 24V batteries provide long-lasting power, fast charging, and lightweight portability, making them a smart choice for both personal and professional use.

#### FEATURES

- > Up to 20 times longer cycle life than alternatives, minimising replacement costs
- > About 40% of the weight of comparable lead acid batteries
- > Delivers twice the power and maintains a high energy capacity
- > Automatic 'Battery Management System' for enhanced safety

#### IDEAL FOR

Solar Street Light Towers
Off Grid Power Stations

MODELS	ETG-ELI07-24V	ETG-ELI11-24V	ETG-ELI16-24V	
Nominal Voltage (V)	25.6V	25.6V	25.6V	
Rated Capacity	70Ah @0.5C	110Ah @0.5C 165Ah @0.5C		
Energy	1.79KWh	2.82KWh 4.2KWh		
Max Connection		2S2P		
Charge Voltage		28.8 ± 0.2		
Standard Cutoff Voltage		About 20V ± 5%		
Charge Current	≤35A	≤55A	≤82A	
Standard Discharge	≤35A	≤55A ≤82A		
Max Discharge Current	≤100A	≤100A ≤100A		
Circuit Protection	Overcharge, Overdischarge, Over current, Over temperature, and Short Balance			
Charging / Discharging Terminal	M8			
Curle Life	≥3000@0.2C (100%DOD)			
Cycle Life	≥6000@0.2C (80%DOD)			
Operating Temperature		Charge: 0°C~20°C		
(Battery Surface)		Discharge: -20°C~60°C		
Dimensions (±2mm )	330x173x216mm	490x171x240mm	520x267x220mm	
Approx Weight (Kg)	13 ± 0.5Kg	21 ± 0.5Kg	33 ± 0.5Kg	
Warranty (Months)	36			





COMPACT ELION SERIES

Elion Lithium 24V

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EL	ION
LiFePO	4 - Lithium Battery

#### OVERVIEW

The ELION lithium rechargeable battery is the premium solution for energy storage, safety and lightweight, modular design.

#### FEATURES

- > Up to 20 times longer cycle life than alternatives, minimising replacement costs
- > About 40% of the weight of comparable lead acid batteries
- >> Delivers twice the power and maintains a high energy capacity
- >> Automatic 'Battery Management System' for enhanced safety

#### IDEAL FOR

Solar Street Light Towers
Campsites
Off Grid Power Stations

MODELS	ETG-ELI15			
Rated Capacity (77°F/25°C)	150Ah @0.5C			
Optional Capacity @0.5C	150Ah to 200Ah			
Circuit Protection	Overcharge, Overdischarge, Over current, Over temp, Short, Balance			
Cycle Life	3000 times Cycles @100%DOD and 4200times @80% DOD			
Nominal Voltage (V)	12.8V			
Monthly Self Discharge	Less than 2%			
Efficiency of Charge	100% @0.5C			
Efficiency of Discharge	96-99% @1C			
Charge Voltage	14.6±0.2V			
Standard Charge Current (A)	30A			
Max.Charge Current (A)	100A			
Standard Discharge Current (A)	20A			
Max. Continuous Current (A)	100A			
Discharge Cut-off Voltage (A)	10A			
Charge Temperature	0°C ~ 55°C			
Discharge Temperature @60±25% Relative Humidity	-20°C ~ 60°C			
Storage Temperature	-20°C ~ 45°C			
Dimensions (mm)	490*171*240			
Battery Case	Plastic case / IP65 (Fire Retardant Casing)			
Terminal	M8			
Approx Weight (Kg)	17.0			
Warranty (Months)	36			







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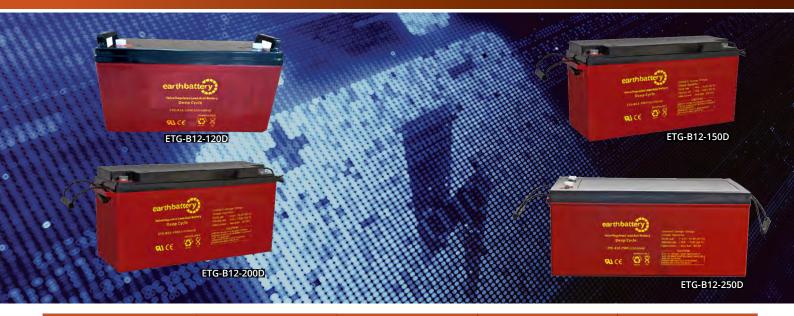
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## **DEEP CYCLE VRLA AGM BATTERY**



MODELS	ETG-B12-120D	ETG-B12-150D	ETG-B12-200D	ETG-B12-250D
Nominal Voltage	12V - 6 Cells per Unit			
Design floating life (Years)	15			
	Capacity at 25°C			
Nominal 20Hr Rate 10.8V]	(6.0A) 120Ah	(7.5A) 150Ah	(10.0A) 200Ah	250Ah
10 Hr Rate [10.8V]	(10.8A) 108Ah	(13.5A) 135Ah	(18.0A) 180Ah	216Ah
5 Hr Rate [10.5V]	(19.1A) 95.5Ah	(23.9A) 119.5Ah	(31.8A) 31.8 Ah	191Ah
1 Hr Rate [9.6V]	(69.3A) 69.3Ah	(86.6A) 86.6Ah	(115.5A) 115.5 Ah	138.2Ah
		Internal Resis	stance at 25°C	
Full Charged	≤5.0 mΩ	≤4.0 mΩ	≤3.4mΩ	≤3.0 mΩ
		Ambient Te	emperature	
Discharge				
Charge	-15°C ~45°C	-15°C ~45°C	-15°C ~45°C	-15°C ~45°C
Storage				
Max. Discharge Current	650A(5s)	800A(5s)	900A(5s)	1060A(5s)
	Capacity effected by Temperature (10Hrs)			
40°C		10	5%	
25°C		10	0%	
0°C		85	5%	
-15°C		65	5%	
Self-discharge / Month at 25°C		3	%	
Standby use	Initial charging < 24A 13.6 -13.8V	Initial charging <30A 13.6 -13.8V	Initial Charging <40A Voltage 13.6-13.8V	Initial charging < 50A 13.6 -13.8V
Cycle use	<24A 14.4 -14.9V	<30A 14.4 -14.9V	<50A 14.4 -14.9V	<50A 14.4 -14.9V
Dimension (mm)	330 x 175 x 220	484 x 174 x 241	522 X 238 X 224	520 x 269 x 220
Weight (kg)	32.5	45.5	58.4	70.0



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**SOLAR PANEL** 

#### FEATURES

- >> Positive tolerance +5W
- >> High module and cell efficiency
- >> Strong compressive strength certified to withstand high winds and snow
- > Excellent performance under extreme conditions
- > Reliable quality 10 Year Warranty

MODEL	ETG-DSP200	ETG-DSP400			
Max Power at STC (Pmax) (W)	200 ± 3%	300±3%	400 ± 3%		
Maximum Power Voltage (Vmp)	37.0V	37.0V 32.4V			
Maximum Power Current (Imp)	5.41A	9.26A	9.82A		
Open-Circuit Voltage (Voc)	45.1V	39.50V	49.55V		
Short-Circuit Current (lsc)	5.88A	9.78A	10.59A		
Nominal Operating Cell Temp (NOCT)	47±2°C	47±2°C	44±2°C		
Maximum System Voltage	1000Vdc	1000Vdc	1000Vdc		
Max. Series Fuse (A)	10A 16A		20A		
Power Tolerance	0~+5W	0~+5W	0~+5W		
Weight (Kg)	14.5 18		22		
Operating Temperature	-40° to +85°C				
Dimension (mm)	1580 x 808 x 35     1640 x 992 x 35     1956 x 992 x 35		1956 x 992 x 35		
Standard Test Condition: Irradiance =10	Standard Test Condition: Irradiance =1000W/m², Module Temperature 25°, AM=1.5 Wind 0m/s				
Nominal Operating Cell Temperature: Ir	Nominal Operating Cell Temperature: Irradiance =800W/m <sup>2,</sup> Module Temperature 20° AM=1.5, Wind 1m/s				
Warranty		10 Years			









### **MPPT CONTROLLER**



#### **PROTECTIONS**

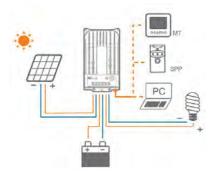
- > PV short circuit and over current protection
- > PV and Battery reverse polarity protection
- > Battery over discharge and voltage protection
- Load overload protection
- Battery overheating protection
- > Controller overheating protection

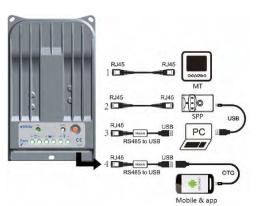
#### **FEATURES**

- Advanced MPPT technology, with efficiency no less than 99.5%
- Maximum conversion efficiency of 98%
- Ultra-fast tracking speed
- High accuracy of recognizing and tracking of multiple power points
- Automatic function of maximum PV input power
- Wide MPP operating voltage range
- Load controls: Manual control, light ON/OFF, light On + Timer control
- o Support 4 Charging options: Sealed Gen, Flooded and User
- o Battery temperature compensation function
- Real-time energy statistics function
- RS-485 communication bus interface Modbus protocol
- PC monitoring and external display unit supports
- Software upgradeable

Model	ETG-2215BN		ETG-3215BN		
Nominal system voltage	12/24V Auto work		12/24V Auto work		
Rated battery current (A)	20			30	
Rated load current (A)	20			20	
Max.PV Open circuit (V)	150V@Enviro	nment Te	mperature /138V@25°C		
	260W(12V)		3	90W (12V)	
Max. PV input power	520W(24V)		7	80W (24V)	
Dimension	217x143x56mm	217x143x56mm 281x1		x160x60mm	
Terminal (mm <sup>2</sup> )	10		16		
Net weight (kg)	1.5	1.5		2.3	
Equalize charging (V)	Sealed: 14.6V, Flooded: 14.8V, USER: 9~17V	MPP Voltage range		Battery Voltage +2V~180V	
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, USER: 9~17V	Grounding		Common negative	
Float charging voltage	Gel /Sealed /Flooded: 13.8V, USER: 9~17V	Tempe	rature Compensation	-3mV/ºC/2V	
Low voltage reconnect (V)	Gel /Sealed /Flooded: 12.6V, USER: 9~17V	Sealed /Flooded: 12.6V, USER: 9~17V Communication		RS485 / RJ45 interface	
Low voltage disconnect (V)	Gel /Sealed /Flooded: 11.1V, USER: 9~17V	Working temperature		-30°C ~ +85°C	
Self-consumption	≤60mA(12V) ≤30mA(24V)	Storage	e temperature	-35°C ~ +80°C	
Humidity	≤95% N.C.	Enclosu	ıre	IP30	

#### **CONNECTION DIAGRAM**







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#### MIGH-END MPPT CONTROLLER



#### PROTECTIONS

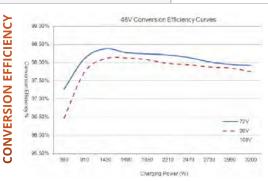
- > PV short circuit and over current protection
- > PV and Battery reverse polarity protection
- > Battery over discharge and voltage protection
- Load overload protection
- Battery overheating protection
- > Controller overheating protection

#### **FEATURES**

- Advanced MPPT technology, with efficiency no less than 99.5%
- Maximum conversion efficiency of 98%
- o Ultra-fast tracking speed
- High accuracy of recognizing and tracking of multiple power points
- o Automatic function of maximum PV input power
- Wide MPP operating voltage range
- o Load controls: Manual control, light ON/OFF, light On + Timer control
- Support 4 Charging options: Sealed Gen, Flooded and User
- o Battery temperature compensation function
- Real-time energy statistics function
- RS-485 communication bus interface Modbus protocol
- PC monitoring and external display unit supports
- Software upgradeable

Model	ETG-IT6415ND		
Nominal system voltage	12/24V Auto work		
Rated battery current (A)	60		
Battery Input Voltage Range (V)	8~68		
Max. PV open circuit voltage	150V (at minimum operating environment temperature) 138V (at 25°C environment temperature)		
MPP Voltage Range	Battery voltage+2V~108V		
Maximum Input Power	800W/12V 1600W/24V 2400W/36V 3200W/48V		
Dimensions (mm)	440 x 231 x 110		
Net Weight (kg)	5.9		
Self Consumption	1.4W ~ 2.6W	Discharge Circuit Voltage Drop	≤0.3V
Grounding	Common Positive	LCD temperature range	-20°C ~ +70°C
Altitude	<5000m	Working temperature	-25°C ~ +55°C
Humidity	≤95% N.C.	Storage temperature	-30°C ~ +85°C
Enclosure	IP20	Terminal	2AWG (35mm)
Mounting Hole	Ф10		





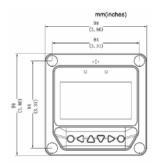


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## **REMOTE PROGRAMMER**

#### FEATURES

- >> Automatic identify the controller
- >> Large screen LCD display
- >> Simple and convenient operation
- >> Real-time alarm for failure information
- >> Communication distance based on RS485
- Load Control modes: Manual Control, Light ON/OFF, Light ON+timer
- Battery type selection: Gel, Sealed, flooded & user
- >> Energy statistics display function





Real-time Monitoring

#### **TECHNICAL SPECIFICATIONS**

MODEL: ETG-MT50		
	Backlight and acoustic alarm on<65mA	
Self-consumption	Backlight on<23mA	
	Backlight off <15mA	
Faceplate dimensions	98×98 mm	
Frame dimensions	114×114 mm	
Connector type	Rj45	
Meter cable	Standard 2m, max .50m	
Meter weight	0.190 Kg	
Ambient Temperature	-20°~+70°	



**Battery Type Setting** 



**Energy Statistics** 





## **CONCRETE BLOCKS**

#### **FEATURES**

- >> Produly Australian made
- >> Cat D design features
- >> Forklift sleeves









ETG-CB755 750x750x500 750kg



ETG-CB1005 1000x1000x500 1250kg



1400x1400x800 4000kg



ETG-CB1606 1600x1600x600 4000kg



ETG-CB1000 1000x1000x1000 2500Kg



## **POLES & ACCESSORIES**



FOLDING POLES

ETG-FBP4 - 4 metre ETG-FBP6 - 6 metre ETG-FBP8 - 8 metre ETG-EPCW - Counterweight

#### BATTERY BOX



ETG-WBOX800 800mm for MAXI Tower

#### SOLAR PANEL FRAME (Only)



ETG-SSFP1 Single Panel, Powder coated





ETG-TM7 7m, Galvanised *Manual winch* 



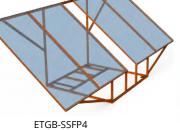
ETG-TLTP4 - 4 metre Standard Mini Tower Pole



ETG-WBOX1200 1200mm for MAXI Tower



ETG-SSBOX 1200mm for Mega Tower



ETGB-SSFP4 Quad Panel, Powder coated



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## notes.

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