earthSOLAR

EARTH SOLAR LED LIGHTS

Engineered and Certified to meet every demand

earthtrack
GROUP

earthSOLAR

Contents

When thousands of pounds of equipment are in motion, visibility is paramount for safe productivity on the worksite. Whether you operate a small team or navigate busy industrial sites crowded with workers, vehicles and equipment, Earthtrack has you covered for maximum visibility and durability under the toughest site and weather conditions.

SOLAR WALL LIGHT

BOW ETG-SWL160

- » Elegant Chamfered Design
- » Aluminium +ABS Body
- » Warm Light
- » Lighting time up to 3 Nights
- » Easy installation

SUITABLE FOR

Outdoor wall, Garden, Steps, Park, Street, Pathways, Courtyard, Sidewalk, etc

Model	ETG-SWL160
IP Rating	IP65
Solar Charging Time	10 -11 Hours
Solar Panel	1W 5.5V
Li-on Battery	2000mAh 3.7V
Lumen	20
Body Material	Aluminium + ABS
Warranty	12 Months

Solar Panel Battery

Water and dust proof
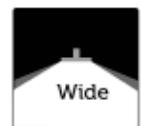
Light spread for wide angle

SOLAR WALL LIGHT

MONK   ETG-SWL200

- Elegant Round Design
- Aluminium + Toughened Glass
- Warm Light and High Brightness White Light
- Lighting time up to 3 Nights
- Installing height 2.5 ~ 3 Meters

SUITABLE FOR

Garden, Gates, Fence, Courtyard, Park, Corridors, Side walk, Public square, Private roads, Beach, Walk-ways, etc.

Model	ETG-SWL200
IP Rating	IP65
Solar Charging Time	20 Hours
Solar Panel	0.5W
Li-on Battery	2000mAh 3.7V
Lumen	200
Body Material	Aluminium + Toughened glass
Warranty	12 Months

Solar Panel Battery

IP65

Water and dust proof
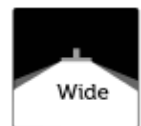
Wide

Light spread for wide angle

SOLAR WALL LIGHT

ZEN   ETG-SWL320

- Elegant Design
- Aluminium alloy case
- Pure white or Warm Light Button
- Lighting time up to 3 Nights
- Install height 2.5 to 3.5 Meters

SUITABLE FOR

Outdoor Wall, Garden, Steps, Park, Street, Pathways, Courtyard, Sidewalk, etc

Model	ETG-SWL320
IP Rating	IP65
Solar Charging Time	10 -11 Hours
Solar Panel	1W 5.5V
Li-on Battery	2000mAh 3.7V
Lumen	400
Body Material	Aluminium + PC
Warranty	12 Months

Solar Panel Battery

Water and dust proof

IP65

Motion Sensor Control

SOLAR GARDEN LIGHT

SHADE ETG-SGL1100

- Elegant Design
- Aluminium alloy case
- Pure white or Warm Light Button
- Lighting time up to 3 Nights
- Install height 2.5 to 3.5 Meters

SUITABLE FOR

Outdoor Wall, Security Buildings, Garage Entrance, Warehouse,

Gateways, Escape trunk, Corridor, Garden, etc

Model	ETG-SGL1100
IP Rating	IP65
Solar Charging Time	9 Hours
Solar Panel	5W
Li-on Battery	8000mAh 3.7V
Lumen	1000
Body Material	Aluminium + Toughened glass
Warranty	12 Months

Solar Panel Battery

Water and dust proof
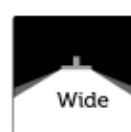
Light spread for wide angle

Motion Sensor Control

SOLAR GARDEN LIGHT
ROOT
ETG-SGL2100-RGB

- ❯ Elegant Edge Design
- ❯ Super bright 44 LEDs
- ❯ Switch colors with single button
- ❯ Lighting time up to 2 Nights
- ❯ Easy Install

SUITABLE FOR

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

Model	ETG-SGL2100-RGB
IP Rating	IP65
Solar Charging Time	6 -7 Hours
Solar Panel	6W / 6V
Li-on Battery	8000 Wh 3.7V
Lumen	1000
Body Material	Aluminium alloy
Warranty	12 Months

Solar Panel Battery

IP65

Water and dust proof

Single button RGB Light

COURTYARD LIGHT

ETG-SCL1000

» Mountable on pole and wall
» Large Lighting area
» Replaceable Battery
» More than 4 Full Nights with Dimmer Mode
» Multi-functional Light Modes

SUITABLE FOR

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

Model	ETG-SCL1000
IP Rating	IP65
Solar Charging Time	9-10 Hours
Adjustable Angle	0º / 15º / 30º
Li-on Battery	3.7V 12000mAh
Lumen	1000
Body Material	Aluminium alloy + PC Lens
Warranty	12 Months

Solar Panel Battery

Water and Dust Proof

Remote Control Function

Motion Sensor Control

SOLAR BOLLARD LIGHT

DISC   **ETG-SBL1000**

- Mushroom shape strong elegant pole
- Aluminium body
- Wireless connection
- Lighting time up to 3 Nights
- Easy installation

SUITABLE FOR

Garden, Gates, Fence, Courtyard, Park, Corridors, Side walk, Public square, Private roads, Beach, Walk-ways, etc.

Model	ETG-SBL1000
IP Rating	IP65
Solar Charging Time	7 - 8 Hours
Solar Panel	4.6W 5.5V
Li-on Battery	6000mAh 3.7V
Lumen	150, Warm white
Body Material	Aluminium
Warranty	12 Months

Solar Panel Battery   Water and dust proof   Time controller

SOLAR BOLLARD LIGHT
FUNNEL   ETG-SBL002

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

SUITABLE FOR

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

Model	ETG-SBL002
LED Power	3.5W
Solar Panel Grade A	9V/5.5W Monocrystalline
Charging/Discharging	6 Hours / 23 Hours
Beam Angle	120°
Lithium Battery	6.4V, 4.5AH, LiFePO$_4$
Lumen	385~420lm
CCT	3000-7500K
IP Rating	IP65
Body Material	6063 Aluminium, PC
Dimension	Ø 89 x Ø 182 x 200 x 80
Warranty	3 Years

Solar Panel Battery   Water and Dust Proof

SOLAR BOLLARD LIGHT
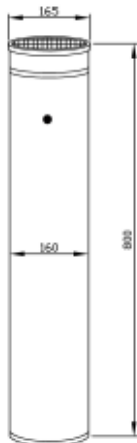## COP   ETG-SBL007

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

SUITABLE FOR

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

RoHS COMPLIANT   CE   ISO

Model	ETG-SBL007
LED Power	1.8 W
Solar Panel Grade A	9V/4.5W Monocrystalline
Charging/Discharging	8 Hours / 23 Hours
IP Rating	IP65
Beam Angle	120°
Lithium Battery	6.4V, 4.5AH, LiFePO$_4$
Lumen	198~216lm
CCT	3000-7500K
Body Material	6063 Aluminium, PC
Dimension	Ø 165 x 800 x Ø160
Warranty	3 Years

Solar Panel Battery

IP65

Water and dust proof

SOLAR BOLLARD LIGHT
EDGE   ETG-SBL014

RoHS CE ISO

Model	ETG-SBL014
LED Power	1.8W
Grade A Solar Panel	9V/3.5W Monocrystalline
Charging/Discharging	8 Hours / 23 Hours
Beam Angle	120°
Lithium Battery	6.4V, 4.5AH, LiFePO$_4$
Lumen	198~216lm
CCT	3000-7500K
IP Rating	IP65
Body Material	6063 Aluminium, PC
Dimension	Ø 220 x 240 x 310mm
Warranty	3 Years

» A Grade monocrystalline solar panel

» Automatic intelligent light control

» Anti-corrosion, anti-oxidation, high impact PC cover

» No Cabling, No trenching Easy installation

» LED Lifespan up to 50,000 Hours

SUITABLE FOR

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

Solar Panel Battery   Water and Dust Proof

SOLAR PLAZA LIGHT
## CONICAL   ETG-SPL9400

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

SUITABLE FOR

Exterior Wall, Plaza, Street, Garden, Park, Roadways, Parking Lot, Court yard, Campus, Corridors, Side walks, Public square, Airfield, Ranch, Private roads, Beach, etc
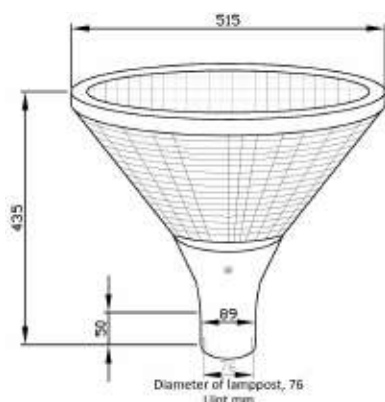
Model	ETG-SPL9400
LED Power	12W
Grade A Solar Panel	18V/25W Monocrystalline
Charging/Discharging	8 Hrs / 18 Hrs
IP Rating	IP65
Beam Angle	120°
Lithium Battery	12V, 12AH, LiFePO$_4$
Lumen	1320~1440lm
CCT	3000-7500K
Body Material	6063 Aluminium, PC
Dimension	Ø 515 x 415mm
Mounted Lamppost	Ø 76mm
Warranty	3 Years

Time /Light controller   Solar Panel Battery   Water and dust Proof

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SOLAR PLAZA LIGHT

GARDNER   **ETG-SPL9600**

- » Pole mounting
- » Large lighting area
- » Replaceable Battery
- » Lighting more than 3 full nights
- » Multi-functional light modes

SUITABLE FOR

Plazas, Pathways, Streets, Fence, Courtyard, Park, Corridors, Public square, Private roads, Beach, Walkways, Ranch, etc.

C FC CE BV BSCI

Model	ETG-SPL9600
IP Rating	IP65
Solar Charging Time	9 - 10 Hours
Solar Panel	18W 5.5V
Li-on Battery	26000mAh 3.7V
Lumen	1000 lm
Body Material	Aluminium alloy + ABS
Warranty	12 Months

Solar Panel Battery

Water and dust proof

Time controller

PORTABLE SMART SOLAR

» Constant voltage output

» Fold-able solar panel

» Includes Inverter and battery

» Compact model and portable

» Over-charge/discharge, overload, over temperature Protection

SUITABLE FOR

Mobile radio station, Camping, Expedition,

Outdoor activities, Computers, GPS,

Inter-phone, mobile working devices,

Emergency lights, and more.

Model	ETG-PSS130
Solar Panel Power	54W x 2pcs
Output	DC20V/5.7A (in series)
Weight	6Kg
Output connector	Waterproof
Size	520 x 840 x 36mm
Unfolded Size	1040 x 840 x 18mm
Energy Storage Unit	
Solar DC Input	DC20V/5.7A
Adapter DC Input	DC 19V/4.7A
Inverter	500W
Inverter Output	AC220V/50Hz
USB Output	DC5V, 2.1A / DC5V, 1A
Battery Capacity	25.2V/30Ah
Dimension	315 x 270 x 160mm
Solar Charging time	8 Hr
Utility Charging time	8.5Hr
Weight	7.7Kg

UNFOLDING PANEL

CONNECTING SOLAR PANEL

SOLAR PANEL DIMENSIONS
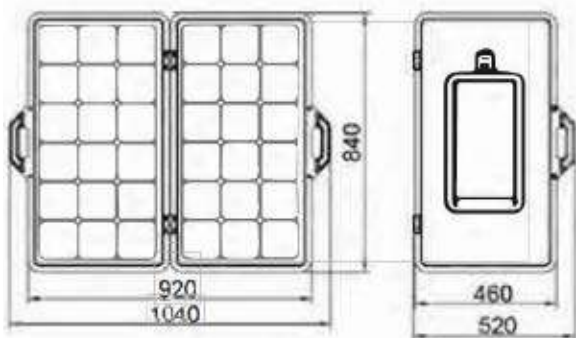
BATTERY DIMENSIONS
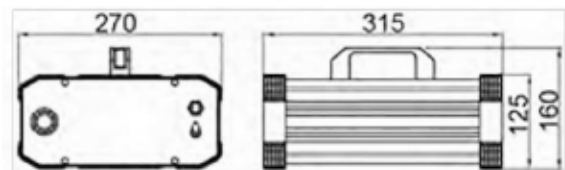
SOLAR AREA LIGHT

FC C€ BV BSCI

» Elegant Design

» Aluminium alloy with steel glass

» Easy maintenance and replaceable parts

» Lighting time up to 3 Nights

» Install height 4 to 8 Meters

SUITABLE FOR

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

Solar Panel Battery

IP65

Water and dust proof

140°
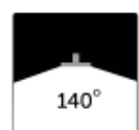
140° Lighting Angle

SPECIFICATION

Model	ETG-SAL2000	ETG-SAL3000	ETG-SAL4000
IP Rating	IP65	IP65	IP65
Solar Charging Time	12 Hours	10 - 11 Hours	10 - 11 Hours
Solar Panel	35W 30V	47W 30V	60W 30V
Li-on Battery	288.6Wh 22.2V	346Wh 22.2V	461Wh 22.2V
Lumen	2000 lm	3000 lm	4000 lm
Body Material	Aluminium alloy + Steel glass	Aluminium alloy + Steel glass	Aluminium alloy + Steel glass
Install height	4 to 6 Meters	4 to 6 Meters	6 to 8 Meters
Warranty	12 Months	12 Months	12 Months

ACCESSORIES

LIGHT POLE AND BASE SET

ORDERING CODE	TYPE	DESCRIPTION
LPM605	HEAD MOUNT	360 Degree Swivel Pole Mount for Light fitting with 600mm extension at 5 degrees angle
EZLP4	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 4M height
EZLP5	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 5M height
EZLP6	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 6M height
FBP4	POLE	FOLDING BREAK POLE with counter weight attached 4M height
FBP6	POLE	FOLDING BREAK POLE with counter weight attached 6M height
CB755	BASE	CONCRETE BASE with Fork sleeves and Lifting points 750x750x500mm weight 700KG
CB1007	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1000x1000x1000mm weight 2000KG
CB1405	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1400x1400x1000mm weight 5000KG

SOLAR PATHWAY LIGHT

CFC ⊕ C € BV BSCI

>> Elegant Design
>> Aluminium alloy with steel glass
>> Easy maintenance and replaceable parts
>> Lighting time up to 3 Nights
>> Install height 4 to 8 Meters

SUITABLE FOR

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

Solar Panel Battery

IP65

Water and dust proof

140°
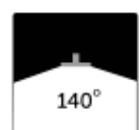
140° Lighting Angle

SPECIFICATION

Model	ETG-SPW1000	ETG-SPW2000	ETG-SPW3000	ETG-SPW4000
IP Rating	IP65	IP65	IP65	IP65
Solar Charging Time	11 Hours	9-10 Hours	9-10 Hours	10 Hours
Solar Panel	7W 5.5V	7W 5.5V	22.7W	33W, 30V
Li-on Battery	13,000mAh 3.7V	26,000mAh	144.3 Wh	230.88 Wh, 22.2V
Lumen	1000	2000	3000	5000
Installing Height	4-5 Meters	4-5 Meters	4-5 Meters	4-6 Meters
Motion Sensor	Yes	Yes	Yes	Yes
Light Sensor	Yes	Yes	Yes	Yes
Warranty	12 Months	12 Months	12 Months	12 Months

Body Material : Aluminium alloy + Toughened Glass

ACCESSORIES

LIGHT POLE AND BASE SET

ORDERING CODE	TYPE	DESCRIPTION
LPM605	HEAD MOUNT	360 Degree Swivel Pole Mount for Light fitting with 600mm extension at 5 degrees angle
EZLP4	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 4M height
EZLP5	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 5M height
EZLP6	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 6M height
FBP4	POLE	FOLDING BREAK POLE with counter weight attached 4M height
FBP6	POLE	FOLDING BREAK POLE with counter weight attached 6M height
CB755	BASE	CONCRETE BASE with Fork sleeves and Lifting points 750x750x500mm weight 700KG
CB1007	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1000x1000x1000mm weight 2000KG
CB1405	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1400x1400x1000mm weight 5000KG

EARTHSOLAR

SOLAR PATHWAY LIGHT

- ❯ No maintenance required
- ❯ Unique Integration Design
- ❯ Rotating Solar Panel
- ❯ Embedded Battery Management
- ❯ Enhanced mechanical structure
- ❯ Light Efficiency Management
- ❯ Microwave Motion sensor
- ❯ Batwing Light distribution

SUITABLE FOR

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

| Solar Panel Battery | Water and dust proof | Remote Control Function | Motion Sensor Control (Optional) |

SPECIFICATION

LIGHT	ETG-SPW1500	ETG-SPW2200	ETG-SPW3300	ETG-SPW4400	ETG-SPW5500	ETG-SPW6600
Power	15W	20W	30W	40W	50W	60W
Lumen Output	1800-2100lm	2500-2800lm	3600-4200lm	5000-5600lm	7200-7500lm	8400-9600lm
Lumen/Watt	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W	160lm/W
LED Qty	40pcs	40pcs	60pcs	60pcs	60pcs	60pcs
LED Chip	Bridgelux					
CCT	3000K-6500K					
CRI	≥70Ra					
Body	Aluminium aloy					
Elevation angle	12° Degree					
IP Rating	IP65					
Life Span	50,000 Hrs					
BATTERY						
Power	170WH / 12.8V	212WH / 12.8V	340WH / 12.8V	424WH / 12.8V	505WH / 12.8V	590WH / 25.6V
Charge Cycle Time	2000 times	2000 times	2000 times	2000 times	2000 times	2000 times
SOLAR PANEL [Monocrystalline]						
Power	50W / 18V	65W / 18V	80W / 18V	100W / 18V	150W / 18V	200W / 18V
Cell Efficiency	19-20%					
SYSTEM						
Light Control Voltage	5V					
Light Distribution	Batwing lens with Polarized light					
Beam Angle	X-axis: 140° Y-axis: 50°					
Lighting Time	2-3 Rainy days (from fully charged)					
Remote	Available	Available	Available	Not Available	Available	Available
Operation Temp	-20°C ~ 60°C					
INSTALLATION						
Mounting Height	5 - 8 metre			7-12 metre		
Installation Spacing	10-12 metre			20-30 metre		

ACCESSORIES   LIGHT POLE AND BASE SET

ORDERING CODE	TYPE	DIMENSIONS	DESCRIPTION
TLP7M	POLE	7.5 metre height	Manual / Electric / Hydraulic Retractable tower
CB1405	BASE	1400x1400x1000mm	CONCRETE BASE with Forklift sleeves

DIMENSION

Ø80.5   299.2   657.7   295.0   389.2
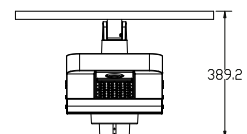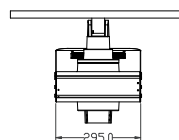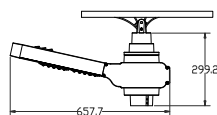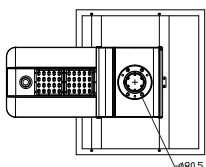
EARTHSOLAR
SOLAR STREET LIGHT

» No maintenance required

» Easy connection between solar panel and light

» New microwave sensor

» Built-in solar controller and battery

» Programmable with remote controller

SUITABLE FOR

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

Microwave Sensor

Solar Panel Battery

IP67

Water and dust proof

Remote Control Function

140°

140° Lighting Angle

SPECIFICATION

Model	ETG-SSL15	ETG-SSL30
Rated Power	15W	30W
Lumen (lm)	1900 lm	4200lm
IP Rating	IP67	IP67
CCT	2700K-6000K	2700K-6000K
CRI	>82	>82
LED Chip	Philips SMD 72Pcs	Philips SMD 72Pcs
Beam Angle	140*70 Degree	140*70 Degree
Solar Panel Power	18VDC	18VDC
Battery Capacity	195WH 11.1V	391WH 11.1V
Cell	MONO Cell	MONO Cell
Pole Height	3-5 Meter	4-8 Meter
Warranty	12 Months	12 Months

ACCESSORIES

LIGHT POLE AND BASE SET

ORDERING CODE	TYPE	DESCRIPTION
LPM605	HEAD MOUNT	360 Degree Swivel Pole Mount for Light fitting with 600mm extension at 5 degrees angle
EZLP4	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 4M height
EZLP5	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 5M height
EZLP6	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 6M height
FBP4	POLE	FOLDING BREAK POLE with counter weight attached 4M height
FBP6	POLE	FOLDING BREAK POLE with counter weight attached 6M height
CB755	BASE	CONCRETE BASE with Fork sleeves and Lifting points 750x750x500mm weight 700KG
CB1007	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1000x1000x1000mm weight 2000KG
CB1405	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1400x1400x1000mm weight 5000KG

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XTREME SOLAR LIGHT
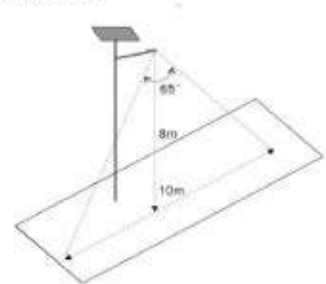SOLAR LED FLOOD LIGHT

» No maintenance required

» Easy connection between solar panel and light

» New microwave sensor (optional)

» Built-in solar controller and battery

» Programmable with remote controller

SUITABLE FOR

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

Solar Panel Battery	Water and dust proof	Remote Control Function	140° Lighting Angle	Motion Sensor Control (Optional)

IP67

140°

SPECIFICATION

MODEL	ETG-SSL15	ETG-SSL30
Rated Power	15W	30W
Lumen (lm)	1900 lm	4200lm
IP Rating	IP67	IP67
CCT	2700K-6000K	2700K-6000K
CRI	>82	>82
LED Chip	Philips SMD 72Pcs	Philips SMD 72Pcs
Beam Angle	140*70 Degree	140*70 Degree
Solar Panel Power	18VDC	18VDC
Battery Capacity	195WH 11.1V	391WH 11.1V
Cell	MONO Cell	MONO Cell
Pole Height	3-5 Meter	4-8 Meter
Warranty	12 Months	12 Months

ACCESSORIES

LIGHT POLE AND BASE SET

ORDERING CODE	TYPE	DESCRIPTION
LPM605	HEAD MOUNT	360 Degree Swivel Pole Mount for Light fitting with 600mm extension at 5 degrees angle
EZLP4	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 4M height
EZLP5	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 5M height
EZLP6	POLE	EZY LIFT POLE with 4 Bolt Base Galvanized 6M height
FBP4	POLE	FOLDING BREAK POLE with counter weight attached 4M height
FBP6	POLE	FOLDING BREAK POLE with counter weight attached 6M height
CB755	BASE	CONCRETE BASE with Fork sleeves and Lifting points 750x750x500mm weight 700KG
CB1007	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1000x1000x1000mm weight 2000KG
CB1405	BASE	CONCRETE BASE with Fork sleeves and Lifting points 1400x1400x1000mm weight 5000KG

EARTHSOLAR

SOLAR CANOPY LIGHT
SOLAR LED CANOPY LIGHTS

» MPPT Efficient control system

» Big battery capacity backup

» 72 Variable lighting modes

» Microwave motion sensor

» Smooth lighting distribution

SUITABLE FOR

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

| Solar Panel Battery | IP67 Water and dust proof | Remote Control Function | Motion Sensor Control |

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SPECIFICATION

Product Code	ETG-XSL12	ETG-XSL18	ETG-XSL24	ETG-XSL36	ETG-XSL48
Power	12W	18W	24W	36W	48W
Lumen (lm)	1500 lm	2200 lm	3000 lm	4200 lm	5500 lm
LED Type / Pcs	SMD2835 144pcs	SMD2835 192pcs	SMD2835 288pcs	SMD2835 384pcs	SMD2835 576pcs
Battery Capacity	144WH 11.1V	200 WH 11.1V	288WH 11.1V	433WH 11.1V	577WH 11.1V
Controller Type	PWM		MPPT		
Solar Panel	40W 18V Mono	50W 18V Mono	60W 18V Mono	80W 18V Mono	100W 18V Mono
Actual Size	92 x 84 x 600mm	92 x 84 x 600mm	92 x 84 x 900mm	92 x 84 x 900mm	90 x 85 x1000mm
Panel Size	670 x 420 x 30mm	700 x 535 x 30mm	670 x 590 x 30mm	760 x 670 x 30mm	1000 x 670 x 30mm
CCT Range	3000K~6500K				
Sensor Type	Microwave				
IP Rating	IP67				
View Angle	240°				
Charge Hours	6 Hours				
Illumination Hours	>24 Hours				
Working Temperature	-20 °C ~ +55 °C				
Warranty	2 years				

Microwave Sensor

MC4 Plugs

Switch Button
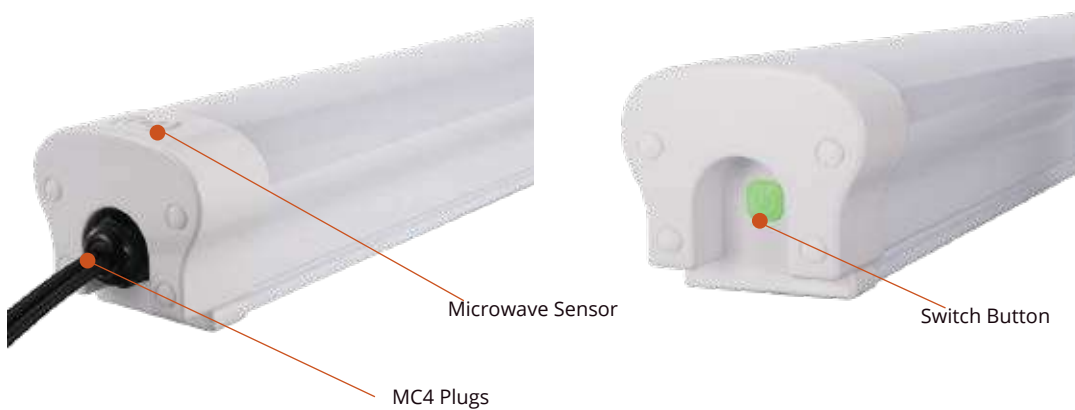
EARTHSOLAR
MAXI SERIES
SOLAR LED STREET LIGHT

- » 6m/8m Break back galvanised pole
- » Deep cycle battery
- » Light sensor
- » Lighting time up to 2 days without sunlight

SPECIFICATION

	PART NUMBER	ETG-SLMT60	ETG-SLMT70	ETG-SLMT90	ETG-SLMT100	ETG-SLMT140
LED LIGHT	Power	60W (30x2)	70W	90W	100W (50x2)	140W (70x2)
	Light Fixtures	Twin	Single	Single	Twin	Twin
	Lumen	3,600lm *(Per Luminaire)*	8,400lm	10,800lm	6,000lm *(Per Luminaire)*	8,400lm *(Per Luminaire)*
	LED	Nichia Chip (Japan)				
	Color Temp (CCT)	6500K				
	Voltage	12 - 24Vdc				
	Body	Aluminium alloy + PC Lens				
	Driver	Sosens+10KV SPDD				
	Rotate	360°				
SOLAR PANEL	Solar Panel	310 Mono crystal				
	Panel Quantity	1	1	1	1	1
	Tracer	4215BN Solar regulator				
	Dimension (mm)	1640 x 980 x 40mm	1640 x 980 x 40mm	1640 x 980 x 40mm	1956 x992 x 40mm	1956 x992 x 40mm
POLE	IP Rating	IP68				
	Anti-Corrosion	Zinc Galvanized				
	Height (from ground)	6m	6m	6m	8m	8m
BASE	Dimensions (m)	1m x 1m x 1m	1m x 1m x 1m	1m x 1m x 1m	1m x 1m x 0.8m	1m x 1m x 0.8m
	Weight (tonnes)	2.5t	2.5t	2.5t	4t	4t
	Fork-lift Sleeves	Yes				
	Upgradeable	Cyclone rated 1m³ Concrete block				
BATTERY	Battery	24V Solar Battery system				
	Battery Box	Lockable				
	Cooling Fans	Yes				
	Manual	Assorted custom wiring design				

* NOTE: As with all solar products, performance is wholly dependent upon the hours of direct sunlight and the orientation of the solar panel

earthSOLAR

SOLAR LED STREET LIGHT
MEGA TOWER

» 7 Metre break back galvanised pole

» 4 tonne - Concrete base with forklift sleeves

» Daylight sensor

» Deep cycle battery

» Lighting time up to 2 days without sunlight

SPECIFICATION

PART NUMBER	ETG-SLMT200	ETG-SLMT400	ETG-SLMT600
Power	200W (100x2)	400W (100x4)	600W (150 x 4)
Lumen	13,000lm *(Per Luminaire)*	13,000lm *(Per Luminaire)*	19,500lm *(Per Luminaire)*
Input	24VDC		
LED	Philips Lumiled 3030		
Color Temperature	6500K		
Body	Aluminium + PC Lens		
Daylight Sensor	Available		
Rotate	360°(R) / 270°(T)		
Solar Panel	310 Monocrystalline		
Panel Quantity	2 panels	4 panels	4 panels
Tracer	4215BN Solar regulator		
Connectors	IP68 [Cables, Connectors & lockout switch]		
Body	Galvanized Finish		
Height	6m		
Dimensions	1.6m x 1.6m x 0.6m		
Weight	4 tonne		
Fork-lift sleeves	Yes		
Upgradeable	Cyclone rated 1m³ Concrete block		
Battery	24V Solar Battery system		
Battery box	Lockable and Gas lift strut	-	-
Cooling Fans	Yes		
Manual	Assorted custom wiring design		

Row side labels: LED LIGHT / SOLAR PANEL / POLE / BASE / BATTERY

* NOTE: As with all solar products, performance is wholly dependent upon the hours of direct sunlight and the orientation of the solar panel

EARTHSOLAR
MINI SERIES
SOLAR LED STREET LIGHT

» Deep cycle battery

» Daylight sensor

» Lighting time up to 2 days without sunlight

» 12 Months warranty

SPECIFICATION

	PART NUMBER	ETG-SPW1000-EZLP5	ETG-SPW2000-EZLP5	ETG-SPW3000-EZLP5	ETG-SPW4000-EZLP5
LED LIGHT	Power	10W	20W	30W	40W
	Lumen (Dim / Bright)	300lm / 1000lm	600lm / 2000lm	500lm / 3000lm	750lm / 5000lm
	Color Temperature	2700K - 6500K			
	Voltage	AC90-305V / 50-60Hz			
	Body	Aluminium alloy + Toughen glass			
	Sensor	Night Sensor + PIR motion sensor			
	IP Rating	IP65			
	Dimension	1553 x 420.5 x224.5 mm			
	Lighting angle	120°			
SOLAR	Solar Panel	7W	15W	22.7W	33W
	Charging hours	9-10Hrs			
	Battery	13,000 mAh, 3.7V			
BASE	Anti-Corrosion	Zinc Galvanized			
	Concrete Dimension	750x750x500			
	Fork-lift sleeves	Yes			

* NOTE: As with all solar products, performance is wholly dependent upon the hours of direct sunlight and the orientation of the solar panel

TELESCOPIC POLE
MANUAL / ELECTRIC / HYDRAULIC WINDING POLE

» Manual / Electric / Hydraulic winding pole

» 7.5M Galvanized Retractable pole

» All in one solar light with built in Li-on Battery

» 2.5 tonne Hi Vis Block mount with forklift sleeves
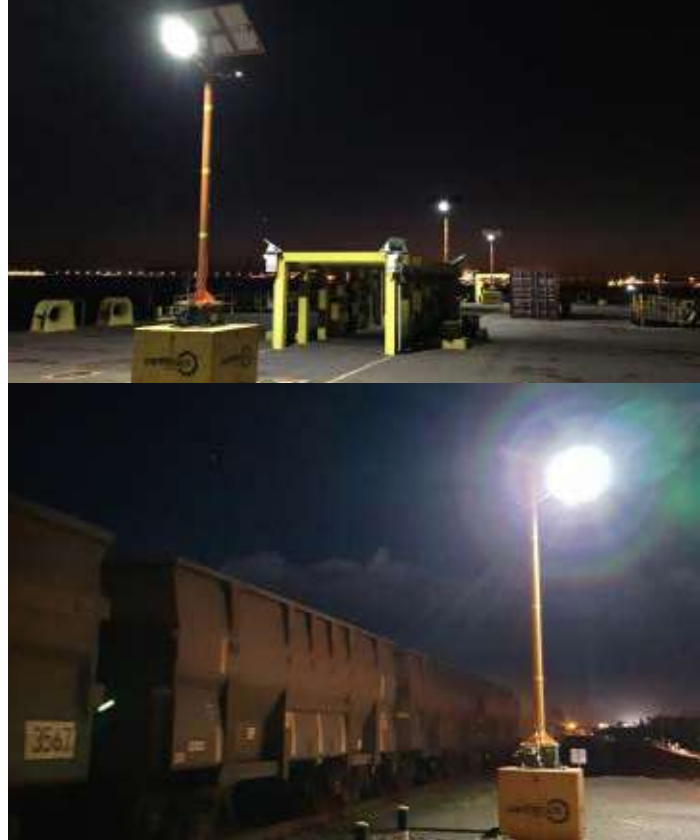
» Lighting time up to 2 days without sunlight

SPECIFICATION

PART NUMBER	ETMS-SPW30-TLP7M-CB	ETMS-SPW50-TLP7M-CB
Power	30W	50W
Solar Panel	18V-65W Monocrystalline Silicon Panel	18V-90W Monocrystalline Silicon Panel
LED	Bridgelux LED Chips	
Lumen	3300lm	5300lm
Solar Charger / Controller	Built-in	
Materials	Aluminium Construction and PC Lenses	
Beam Angle	120°	
IP Rating	IP65	
Base Weight (tonne)	2.5t	
Base Dimension	1m x 1m x 1m	
Pole (from ground)	7.5 Meter - [Manual / Electric / Hydraulic Retractable Pole]	
Warranty	Block And Structure 5 Years / Solar Panel and Controller / LED light Fitting & Batteries 1 Year	

* NOTE: As with all solar products, performance is wholly dependent upon the hours of direct sunlight and the orientation of the solar panel

XTREME SERIES TWIN

FIXED POLE HYDRAULIC TILT

- ≫ Solar panel with full 360º Degree swivel mount
- ≫ Lighting time up to 4 Nights without sunlight charging
- ≫ 6M Pole with Hydraulic manual operated tilt
- ≫ 5 Tonne Base mount with forklift sleeves
- ≫ High Wind load resistance

SPECIFICATION

PART NUMBER	ETG-SLXT60	ETG-SLXT70	ETG-SLXT90	ETG-SLXT100
Power	60W (30 x 2)	70W	90W	100W (50 x2)
Light Fixtures	Twin	Single	Single	Twin
Solar Panel	Monocrystalline Silicon PV 255Watt 24V DC			
LED	CREE CHIP Low Voltage 12/24V DC			
Color Temperature	3000K / 4000K / 6500K			
Lumen	3600lm (Per Luminaire)	8400lm	10,800lm	6000lm (Per Luminaire)
Solar Charger / Controller	ROC-SOLID MPPT Smart Controller with PC App for Logging data and Assorted timer control			
Materials	Aluminium & Tempered Glass Cover			
Beam Angle	Streetlight Beam 60º / 150º Degrees			
IP Rating	IP65			
Net Weight	5000KG			
Size	120x120x80cm Base Structure with a Manual Tilt Hydraulic tilt 5.5m Pole Height			
Solar Pole	Break Back			
Warranty	Block And Structure / Solar Panel and Controller / LED light Fitting 5 Years & Batteries 1 Year			

UPGRADEABLE OPTIONS

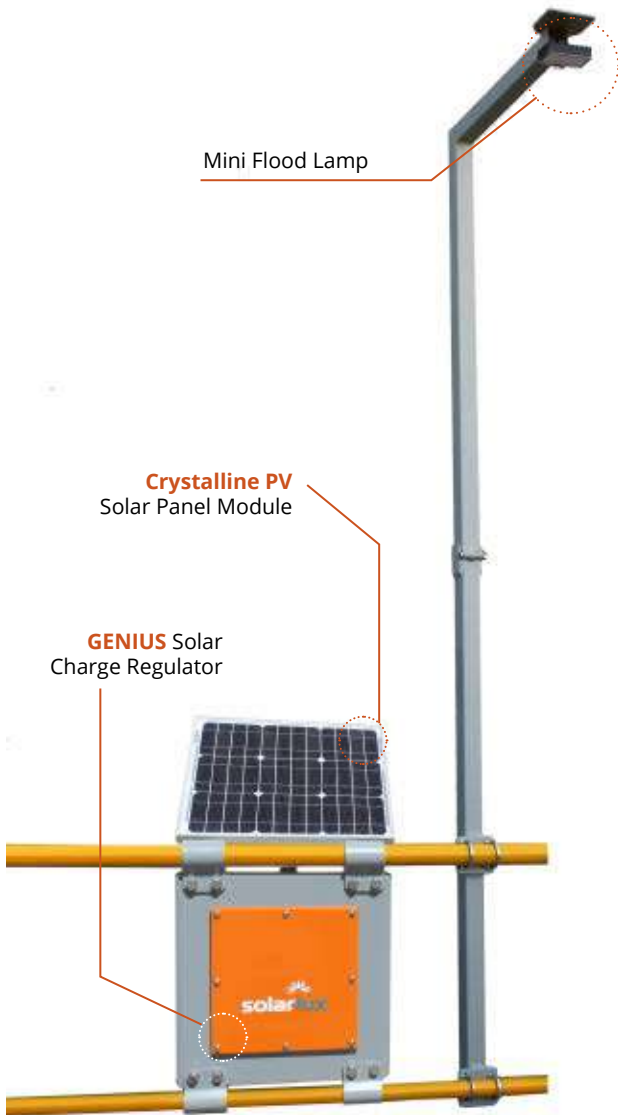| POLE TYPES (6Meter High)	MOUNT BASE
› Break Back Pole	› Concrete Base
› Fixed Pole	› Rag Bolt cage assembly

* NOTE: As with all solar products, performance is wholly dependent upon the hours of direct sunlight and the orientation of the solar panel

TEST RUN BEFORE DISPATCH

CUSTOM SOLAR PRODUCTS

Mini Flood Lamp

Crystalline PV
Solar Panel Module

GENIUS Solar
Charge Regulator

» Mini LED Flood Lamp

» **Crystalline PV** Solar Panel Module

» **GENIUS** Solar Charge Regulator Controller

» **ENDUROGEL VRLA** Battery (with catalyst)

SOLARLUX LED Solar Light Assembly

The SOLARLUX LED Solar Panel walkway lighting unit is an innovative compact lighting solution for remote outback, regional areas where lighting is a safety issue. Suited ideally to overhead walkways on fixed plant & structures, these units do not need power as they are a totally self contained self sufficient lighting unit. Fitting directly between the handrail balustrade systems around fixed plant or any similar situation, the Solarlux Solar LED lighting system supplies consistent light output creating a safer workplace.

GENIUS Solar Charge Regulator Controller 5A (PWM)

The Mini 6w LED flood light is an Ultra bright, Ultra light, Ultra wide miniature flood light that only draws 0.5 amps. With 32 Wide angle SMD LEDs, it is the perfect light to flood any area. Pumping out an impressive 500 lumens from such a compact lightweight body and continuing to supply bright white light for 50,000 hours, it is sure to impress.

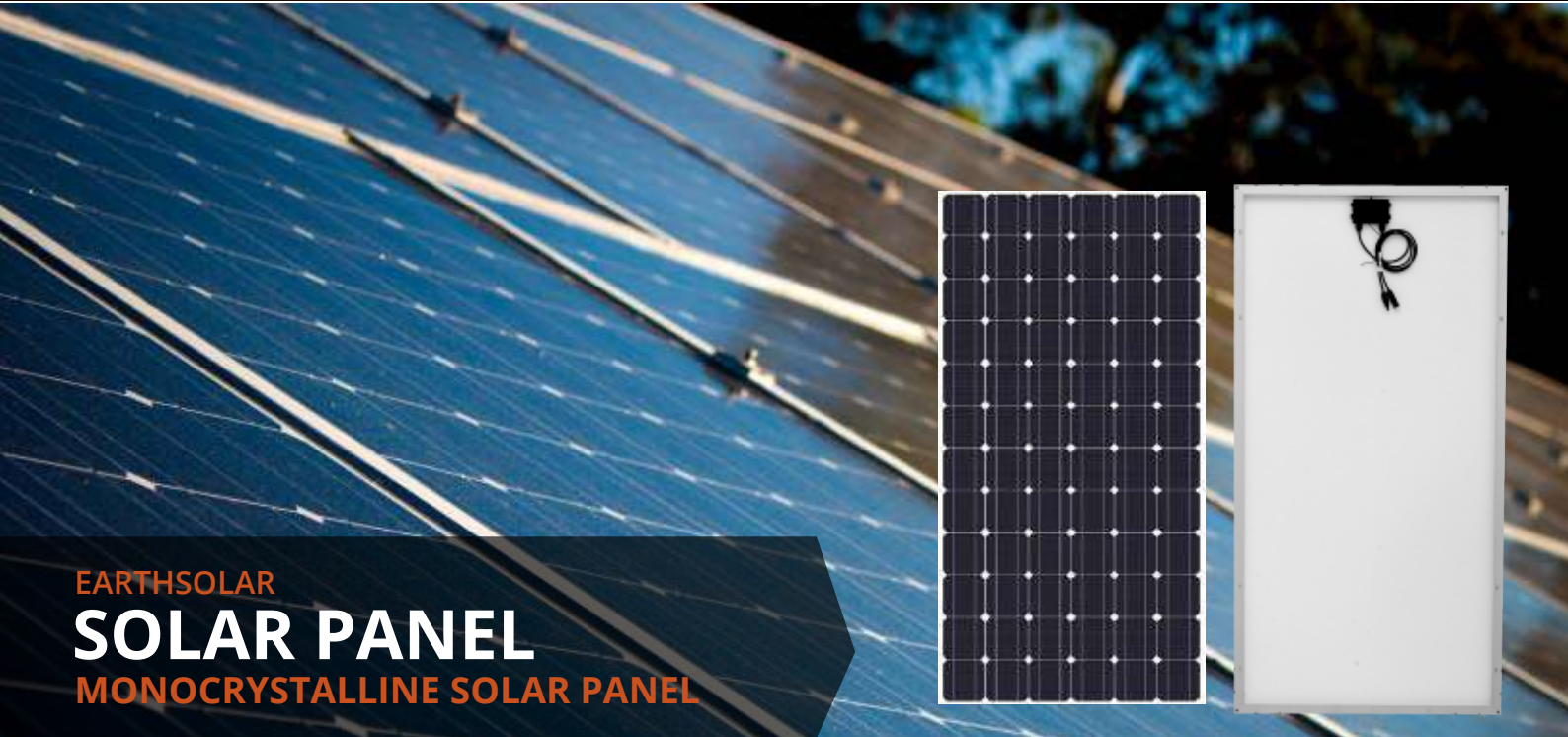| SPECIFICATIONS		
	Voltage	9V - 32V
	Wattage / Current Draw	6W / 0.5A @12V
	IP Rating	IP68
	Lumen	500lm
	Lifespan	50,000Hrs
	Vibrating rate	8.6Grms
	Operating Temperature	-40 / 50ºC

>> LED Lamps

>> SOLAR PANEL

>> SOLAR Battery

>> Day~Night Light Sensor

These Solar poles are designed and assembled in Australia and feature the very latest in solar and LED technology. These units are a truly Australian designed self-sufficient maintenance free units, which are ideal for use in remote areas or simply in areas where running new cables or sourcing mains power is not available or too expensive.

Earthtrack can build various solar systems, From Signage and Illumination of shopping center car parks or local reserves and Parks.

EARTHSOLAR
SOLAR PANEL
MONOCRYSTALLINE SOLAR PANEL

ELECTRICAL SPECIFICATIONS

	ETG-DSP130	ETG-DSP200	ETG-DSP270	ETG-DSP300	ETG-DSP360
Max Power at STC (Pmax)	130W	200W	270W	300W	360W
Optimum Operating Voltage (Vmp)	18.00V	36.00V	36.00V	36.00V	38.8V
Optimum Operating Current (Imp)	7.22A	5.56A	9.00A	8.33A	9.28A
Open-Circuit Voltage (Voc)	22.50V	45.00V	37.5V	45.00V	47.5V
Short-Circuit Current (Isc)	7.52A	5.86A	9.30A	8.63A	9.67A
Operating Temperature	-40° to +85°C	-40° to +85°C	-40° to +85°C	-40° to +85°C	-40° to +85°C
Maximum System Voltage	1000Vdc(IEC) / 600 Vdc(UL)				
Max. Series Fuse Rating	15A	15A	15A	15A	
Power Tolerance	~3%	~3%	~3%	~3%	~3%
Temperature Coefficient					
NOCT	45±2°C	45±2°C	45±2°C	45±2°C	45±2°C
Pmax	-0.47% / °C	-0.47% / 2°C	-0.47% / 2°C	-0.47% / 2°C	-0.39% / °C
Voc	-0.346% / °C	-0.346% / °C	-0.346% / °C	-0.346% / °C	-0.34% / °C
Isc	-0.036% / °C	-0.036% / °C	-0.036% / °C	-0.036% / °C	-0.035% / °C

Standard Test Condition: Irradiance =1000W/m², Module Temperature 25°, AM=1.5 Wind 0m/s

Nominal Operating Cell Temperature: Irradiance =800W/m², Module Temperature 20° AM=1.5, Wind 1m/s

MECHANICAL CHARACTERISTICS

MECHANICAL SPECIFICATIONS

|	ETG-DSP130	ETG-DSP200	ETG-DSP270	ETG-DSP300	ETG-DSP360
Cell Type	Monocrystalline (156*135mm)	Monocrystalline (125mm)	Monocrystalline (156mm)	Monocrystalline (156mm)	Monocrystalline (156mm)
Cell Arrangement	36 (4×9)	72 (6×12)	60 (6×10)	72 (6×12)	72 (6×12)
Dimensions (LxWxH)	1265×660×30mm	1580x808×35mm	1640×980×40mm	1940×980×40mm	1956×992×40mm
Weight	9kgs	15.3kgs	18.2kgs	22.0kgs	22.5kgs
Front Glass	3.2 mm (0.13 inches) tempered glass				
Frame	Anodized aluminum alloy				
Junction Box	IP65 rated				
Wind Loads	2400 Pascal certified				
Output Cables	Double insulated solar cable Ø 4.0 mm^2 (0.006 inches^2)				
Symmetrical lengths	(-) 600mm (35.4 inches) and (+) 600 mm (35.4 inches), MC 4 or its compatible connectors	(-) 900mm (35.4 inches) and (+) 900 mm (35.4inches), MC 4 or its compatible connectors			

130

200
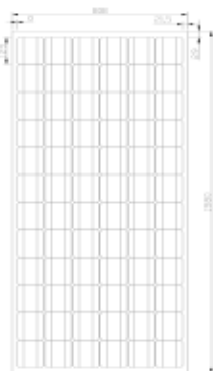
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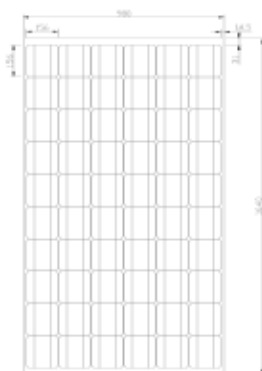
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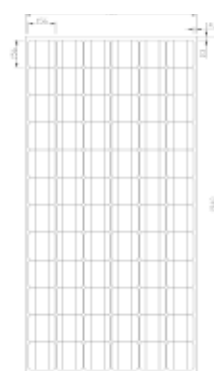
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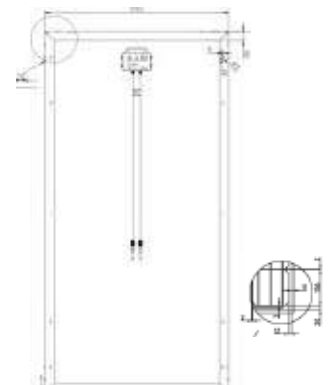
Rear

SOLAR LIGHT TRAILER
HYBRID SOLAR LIGHT SERIES

FEATURES
» 4x 330 Solar panels
» 6 x 200Ah / 8 x 150Ah / 8 x 200Ah Gel batteries
» 4 x 60W / 4 x 100W / 6 x 100W LED Light
» Optional 6 to 9m hydraulic mast (manual or electric)

TRAILER DETAILS

Trailer Type	Dual Axle
Tire/Rim Size	15"
Stabilizer Support	4 x Manual
Draw Bar	A Frame
Tow Hitch	50mm Ball / 70mm Ring
Mud guard/Wheel chock	Special design
Backup Generator	Optional
Working Temp	-35º - +60º

LIGHTING SPECIFICATION

Models	ETG- SLT1200D-L		
LED Watt	60 / 100W	No.Lights	4/6
Lm/W	150lm/W		
Light Output	240/400/600		
Light bar rotation	355 Degrees		
Mast Adjustment	Manual / Electrical / Hydraulic		
Light bar tilt	Optional		
Mast Height	Optional		
Coil cable	4*4²m / 4*6²m		
Wind rating	100km/h		
Lifespan	>50,000		

TOWER DIMENSION

L/W/H	4100 x 2030 x 2750mm
Weight	1850kg

SOLAR PANEL	LED	MAST	BATTERY	GENERATOR(KW)	TRAILER STANDARD
SOLAR PANEL 4 X 330W (Adjustable angle)	240(4x60W) 400(4x100W) 600(6x100W)	Manual 6m / 7.5m /9m Electrical 6m / 7.5m / 9m Hydraulic 6m / 7.5m /9m	B900 (6x150Ah) B1200 (8x150Ah) B1600 (8x200Ah)	G3 Gasoline 3kW D3 Diesel 3kW D5 Diesel 5kW	Electric Brake Mechanical Brake

SOLAR LIGHT TRAILER
HYBRID SOLAR LIGHT SERIES

FEATURES

» 4x 330 Solar panels
» 4 x 200Ah / 6 x 150Ah / 8 x 150Ah Gel batteries
» 4 x 60W / 4 x 100W / 6 x 100W LED Light
» Optional 6 to 9m hydraulic mast (manual or electric)

TRAILER DETAILS

Trailer Type	Single Axle
Tire/Rim Size	15"
Stabilizer Support	4 x Manual
Draw Bar	A Frame
Tow Hitch	50mm Ball / 70mm Ring
Mud guard/Wheel chock	Special design
Backup Generator	Optional
Working Temp	-35° - +60°

LIGHTING SPECIFICATION

Models	ETG- SLT1200A-L		
LED Watt	60 / 100W	No.Lights	4/6
Lm/W	150lm/W		
Light Output	240/400/600		
Light bar rotation	355 Degrees		
Mast Adjustment	Manual / Electrical / Hydraulic		
Light bar tilt	Optional		
Mast Height	Optional		
Coil cable	4*4²m / 4*6²m		
Wind rating	100km/h		
Lifespan	>50,000		

TOWER DIMENSION

L/W/H	4100 x 2100 x 2750mm
Weight	1480kg

SOLAR PANEL	LED	MAST	BATTERY	GENERATOR(KW)	TRAILER STANDARD
SOLAR PANEL 4 X 300W (Fixed angle)	240(4x60W) 400(4x100W) 600(6x100W)	Manual 6m / 7.5m /9m	B800 (4x200Ah) B900 (6x150Ah)	G3 Gasoline 3kW D3 Diesel 3kW D5 Diesel 5kW	Electric Brake Mechanical Brake
		Electrical 6m			
		7.5m / 9m	B1200 (8x150Ah)		
		Hydraulic 6m / 7.5m /9m	B800 (4x200Ah) B900 (6x150Ah) D1200 (6x200Ah)	N/A	

SOLAR LIGHT TRAILER
HYBRID SOLAR LIGHT SERIES

FEATURES

» 3x 330 Solar panels
» 4 x 200Ah / 6 x 150Ah / 6 x 200Ah Gel batteries
» 4 x 60W / 4 x 100W / 6 x 100W LED Light
» Optional 6 to 9m hydraulic mast (manual or electric)

TRAILER DETAILS

Trailer Type	Single Axle
Tire/Rim Size	15"
Stabilizer Support	4 x Manual
Draw Bar	A Frame
Tow Hitch	50mm Ball / 70mm Ring
Mud guard/Wheel chock	Special design
Backup Generator	Optional
Working Temp	-35° - +60°

LIGHTING SPECIFICATION

Models	ETG- SLT900A-L
LED Watt	60 / 100W
Lm/W	150lm/W
Light Output	240/400/600
Light bar rotation	355 Degree
Mast Adjustment	Manual / Electrical / Hydraulic
Light bar tilt	Optional
Mast Height	Optional
Coil cable	4*4²m / 4*6²m
Wind rating	100km/h
Lifespan	>50,000

TOWER DIMENSION

L/W/H	4040 x 1780 x 2750mm
Weight	1280kg

SELECTION TABLE

SOLAR PANEL	LED(W)	MAST M/E	BATTERY	GENERATOR	TRAILER STANDARD
3 X 300W (Fixed)	240(4x60W) 400(4x100W) 600(6x100W)	6m 7.5m 9m	B800 (4x200Ah) B900 (6x150Ah)	G3 Gasoline 3kW D3 Diesel 3kW D5 Diesel 5kW	Electric Brake Mechanical Brake
		H: 6/7.5/9m	B800 (4x200Ah) B900 (6x150Ah) D1200 (6x200Ah)	N/A	

MOBILE LIGHT TRAILER
DIESEL MOBILE LIGHT SERIES

DIESEL

LIGHTING SPECIFICATION

Models	ETG- SLT2000B
LED Watt	360W
Lumens	324,000
Lights	6 LED Flood Lights
LED	48V DC

MAST DETAILS

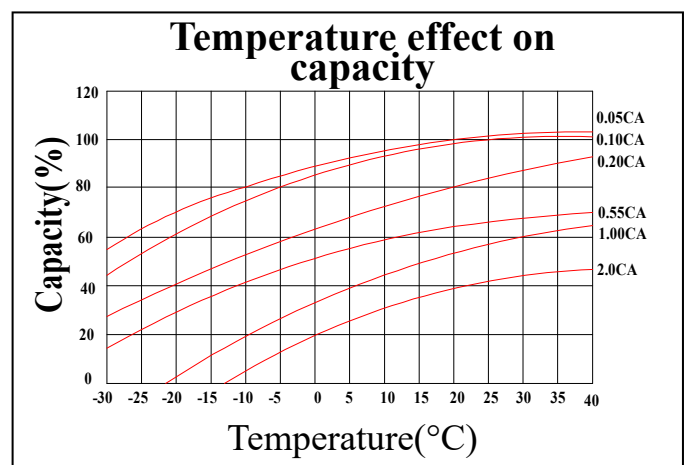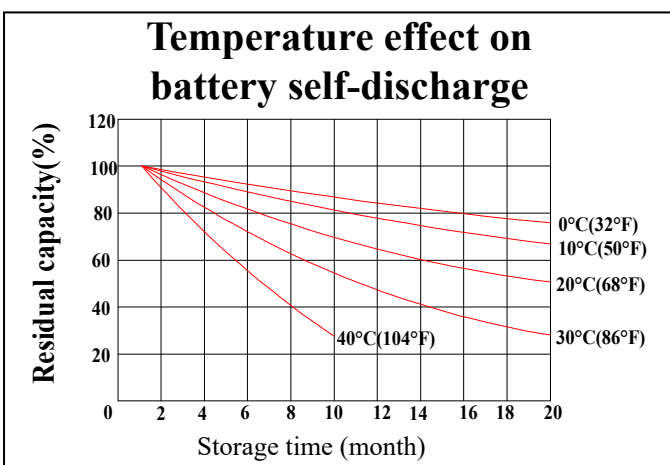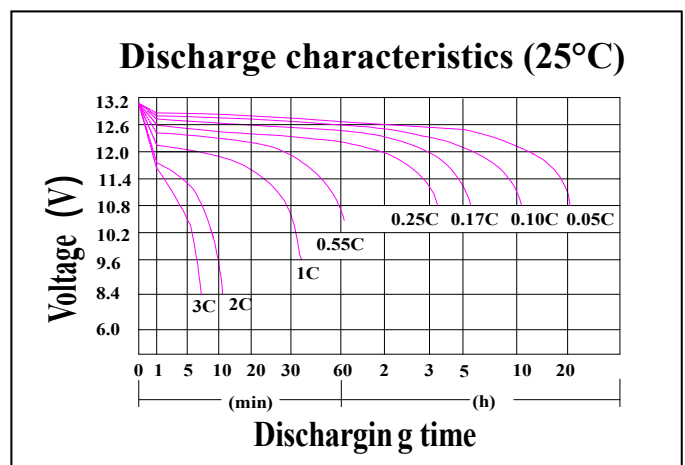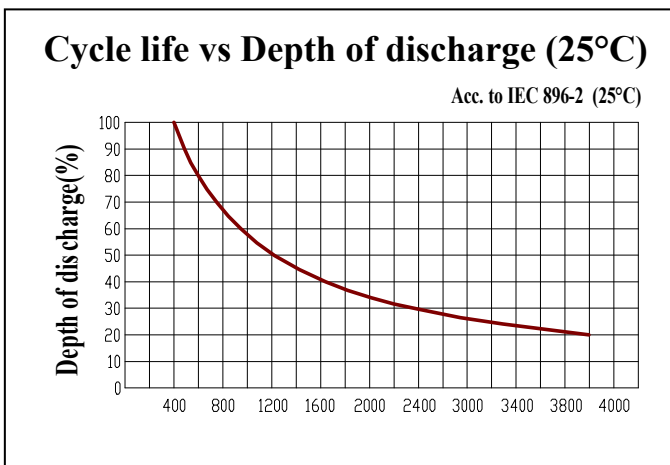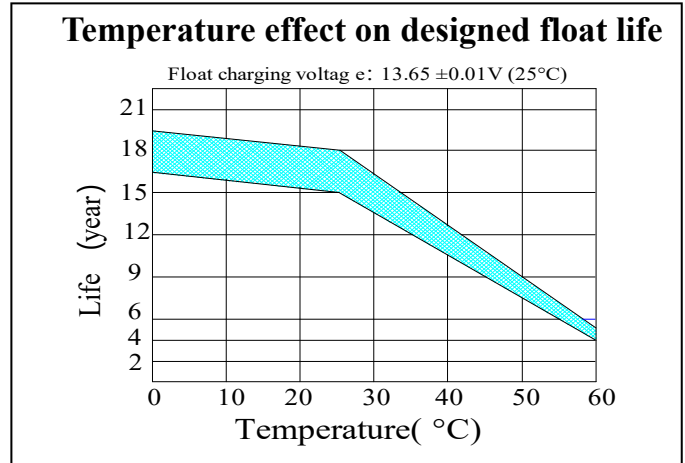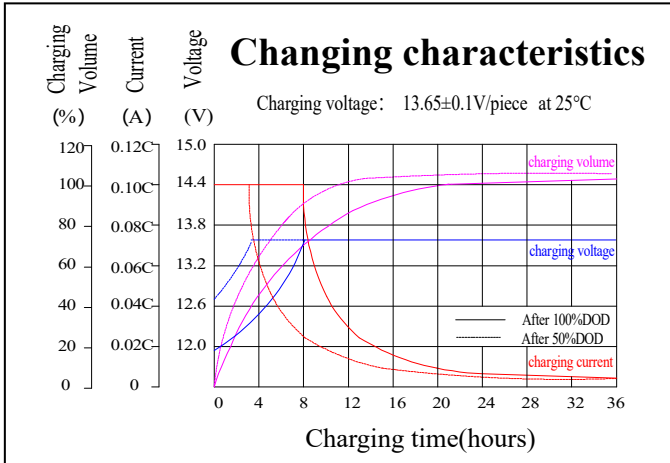|	
Light bar tilt	Electrical Control
Mast Height	Electrical Control
Cable track protection	Electrical cable / Hydraulic hoses
Hydraulic system	12V DC power unit
Stow pin	Electric opening
Max Mast Height	9 meters

ELECTRICAL CONTROLS

Mast operation	Electric over hydraulic
Switch operated	12 V DC
Engine protection	Fail safe (oil, temp, low coolant)
Main circuit breaker	63A

DEEP CYCLE VRLA AGM BATTERY

ETG-B12-80D

ETG-B12-120D

ETG-B12-150D

ETG-B12-200D

ETG-B12-250D

TECHNICAL SPECIFICATIONS

	ETG-B12-80D	ETG-B12-120D	ETG-B12-150D	ETG-B12-200D	ETG-B12-250D
Nominal Voltage	12V - 6 Cells per Unit	12V - 6 Cells per Unit	12V - 6 Cells per Unit	12V(6 cells per unit)	12V - 6 Cells per Unit
Design floating life	12 Years	15 Years	15 Years	15 Years	15 Years
Capacity at 25ºC					
Nominal 20Hr Rate 10.8V]	(4.0A) 80Ah	(6.0A) 120Ah	(7.5A) 150Ah	(10.0A) 200Ah	250Ah
10 Hr Rate [10.8V]	(6.8A) 68Ah	(10.8A) 108Ah	(13.5A) 135Ah	(18.0A) 180Ah	216Ah
5 Hr Rate [10.5V]	(11.9A) 59.5Ah	(19.1A) 95.5Ah	(23.9A) 119.5Ah	(31.8A) 31.8 Ah	191Ah
1 Hr Rate [9.6V]	(45.8A) 45.8Ah	(69.3A) 69.3Ah	(86.6A) 86.6Ah	(115.5A) 115.5 Ah	138.2Ah
Internal Resistance at 25ºC					
Full Charged	≤7.5 mΩ	≤5.0 mΩ	≤4.0 mΩ	≤3.4mΩ	≤3.0 mΩ
Ambient Temperature					
Discharge	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC
Charge	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC
Storage	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC	-15ºC ~45ºC
Max. Discharge Current	450A(5s)	650A(5s)	800A(5s)	900A(5s)	1060A(5s)
Capacity effected by Temperature (10Hrs)					
40ºC	105%	105%	105%	105%	105%
25ºC	100%	100%	100%	100%	100%
0ºC	85%	85%	85%	85%	85%
-15ºC	65%	65%	65%	65%	65%
Self-discharge / Month at 25ºC	3%	3%	3%	3%	3%
Standby use	Initial charging < 22.5A 13.6 -13.8V	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	<22.5A 14.4 -14.9V	<24A 14.4 -14.9V	<30A 14.4 -14.9V	<50A 14.4 -14.9V	<50A 14.4 -14.9V
Length x Width x Height	260 x 169 x 211 mm	407 x 174 x 210 mm	484 x 174 x 241 mm	532 x 206 x 215 mm	520 x 269 x 220 mm
Weight	25.0Kg	39.2Kg	45.5Kg	58.4Kg	70.0Kg

PERFORMANCE CHARACTERISTICS

Changing characteristics

Charging voltage: 13.65±0.1V/piece at 25°C

Charging Volume (%) | Current (A) | Voltage (V)

- 120 / 0.12C / 15.0
- 100 / 0.10C / 14.4
- 80 / 0.08C / 13.8
- 60 / 0.06C / 13.2
- 40 / 0.04C / 12.6
- 20 / 0.02C / 12.0
- 0 / 0 /

charging volume

charging voltage

After 100%DOD
After 50%DOD
charging current

Charging time(hours)
0 4 8 12 16 20 24 28 32 36

Temperature effect on designed float life

Float charging voltage: 13.65 ±0.01V (25°C)

Life (year): 21 18 15 12 9 6 4 2

Temperature(°C): 0 10 20 30 40 50 60

Cycle life vs Depth of discharge (25°C)

Acc. to IEC 896-2 (25°C)

Depth of discharge(%): 100 90 80 70 60 50 40 30 20 10 0

400 800 1200 1600 2000 2400 3000 3400 3800 4000

Discharge characteristics (25°C)

Voltage (V): 13.2 12.6 12.0 11.4 10.8 10.2 9.6 8.4 6.0

0.25C 0.17C 0.10C 0.05C
0.55C
1C
3C 2C

0 1 5 10 20 30 60 2 3 5 10 20
(min) (h)

Discharging time

Temperature effect on battery self-discharge

Residual capacity(%): 120 100 80 60 40 20 0

0°C(32°F)
10°C(50°F)
20°C(68°F)
40°C(104°F)
30°C(86°F)

Storage time (month): 0 2 4 6 8 10 12 14 16 18 20

Temperature effect on capacity

Capacity(%): 120 100 80 60 40 20 0

0.05CA
0.10CA
0.20CA
0.55CA
1.00CA
2.0CA

Temperature(°C): -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40

BATTERY CONSTRUCTION

| COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER & COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE	PILLAR SEAL
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination on efficiency	Fire resistance ABS UL94-V0	Flame Si-Rubber and aging resistance	Female copper Insert M6 (Torque 4~6Nm)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

MPPT CONTROLLER

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
- Die-cast aluminium body and excellent heat dissipation
- Load controls: Manual control, light ON/OFF, light On + Timer control
- Support 4 Charging options: Sealed Gen, Flooded and User
- 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

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

MODELS	ETG-1215BN / 2215BN /3215BN /4215BN
Battery Current	10A / 20A / 30A / 40A
Input Power 12V	130W / 260W / 390W / 520W
Input Power 24V	260W / 520W / 780W / 1040W
IP Rating	IP30
Working Temp	-35ºC ~ +55ºC
Body Material	Aluminium alloy
Warranty	12 Months

CONNECTION DIAGRAM
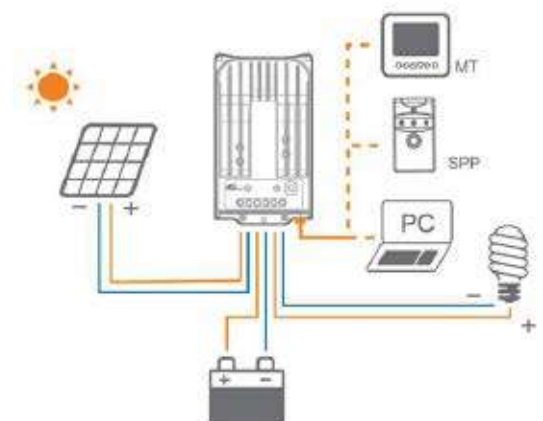
TECHNICAL SPECIFICATIONS

	ETG-1215BN	ETG-2215BN	ETG-3215BN	ETG-4215BN
Nominal system voltage	12/24V Auto work			
Rated battery current	10A	20A	30A	40A
Rated load current	10A	20A	20A	20A
Max.PV Open circuit (V)	150V@Environment Temperature /138V@25ºC			
MPP Voltage range	Battery Voltage +2V~180V			
Max. PV input power	130W(12V)	260W(12V)	390W (12V)	520W (12V)
	260W(24V)	520W(24V)	780W (24V)	1040W (24W)
Equalize charging (V)	Sealed: 14.6V, Flooded: 14.8V, USER: 9~17V			
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, USER: 9~17V			
Float charging voltage	Gel /Sealed /Flooded: 13.8V, USER: 9~17V			
Low voltage reconnect (V)	Gel /Sealed /Flooded: 12.6V, USER: 9~17V			
Low voltage disconnect (V)	Gel /Sealed /Flooded: 11.1V, USER: 9~17V			
Self-consumption	≤60mA(12V) ≤30mA(24V)			
Grounding	Common negative			
Temperature Compensation	-3mV/ºC/2V			
Communication Port	RS485 / RJ45 interface			
Working temperature	-35ºC ~ +55ºC			
Storage temperature	-35ºC ~ +80ºC			
Humidity	≤95% N.C.			
Enclosure	IP30			
Dimension	196x118x36mm	217x143x56mm	281x160x60mm	303x183x64mm
Terminal	4mm^2	10mm^2	16mm^2	25mm^2
Net weight	0.9kg	1.5kg	2.3kg	2.9kg

CONTROLLER CONFIGURE
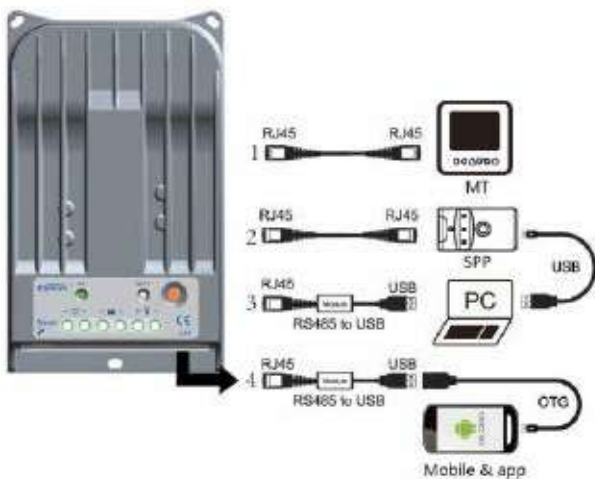
REMOTE PROGRAMMER

## 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

TECHNICAL SPECIFICATIONS

ETG-MT50	
Self-consumption	Backlight and acoustic alarm on<65mA
	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	-20º~+70º
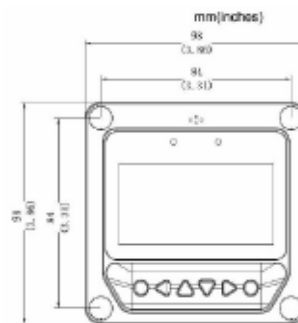
REAL-TIME MONITORING

BATTERY TYPE SETTING

ENERGY STATISTICS

MEGA TOWER

MAXI TOWER

EZY MINI POLE

MEGA TOWER

XTREME POLE

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1300 410 485 | sales@etms.com.au

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