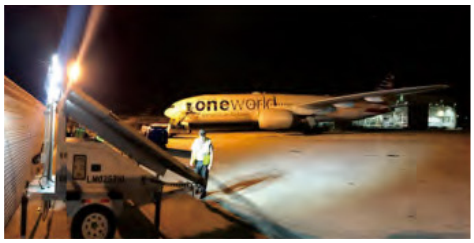
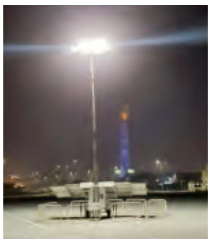
alroufled
LIGHTING TECHNOLOGY CO.Ltd.

شركة الروف
لتقنية الإنارة المحدودة


SOLAR LIGHT TOWER

- No Fuel
- No Noise
- No Emissions

www.alroufled.com

ISO 9001-2015 QMS
ISO 45001:2018 HSE

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AL ROUF LIGHTING TECHNOLOGY CO. LTD.

I take immense pleasure in introducing to you Al Rouf Lighting Technology Company, an ISO 9001-2015 certified well established company in the business of importing, exporting, supplying and installation of LED lighting Fixtures.

We provide portable lighting solutions that are solar and battery operated.

OUR GOALS AND MISSION

We are not just a company, we are unique solution provider that aims the satisfaction of their clients in every step of the project. We combine the experience with art and engineering to provide a solution that meets the clients requirements.

With the help of our high qualified staff, we provide lighting service from A to Z in all manners starting from the lighting design and the products selection, going through the logistic and martial handling until the installation part.

> Looking forward to get in touch with you.

Lighting for us is not a Job it is a Passion

TECHNICAL SPECIFICATION OF SOLAR LIGHT TOWER WITH 4 - 8 SOLAR PANELS

SOLAR LIGHT TOWER SPECIFICATION

Item	Description	BL4P- G9MHL1000- B		BL8P- G9MHL1000	
LED Light	Qty of Lights	4		4	
	Light Wattage	250W		250W	
	Light Output	1000W		1000W	
	Luminous Flux	150000 LM		150000 LM	
	Other Function	Dimmable function with switch and timer		Dimmable function with switch and timer	
Mast	Mast Lifting Type	Manual		Manual	
	Height of Mast	8.3 m		8.3 m	
	Section of Mast	5		5	
	Material	Carbon Steel Q235		Carbon Steel	
	Surface treatment	Galvanized		Galvanized	
	Shape	Square		Square	
Solar Panels	Qty of Solar Panel	4		8	
	Panel Power(W)	435		460	
	Panel Output(W)	1740		3680	
	Material	Monocrystal Silicon		Monocrystal	
	Angle Adjustment Mode	Fixed Angle		Electric	
Battery	Type of Battery	Gel	Lithium	Gel	Lithium
	The qty of Battery	8		8	
	Capacity	200AH		200AH	
	Total Capacity	19200Wh	19200Wh	19200Wh	19200Wh
	Voltage:	DC 12V	DC	12V	48V
Controller	Type	40A MPPT		80A MPPT	
	Brand	Epever		Epever	
	Remote Control	Without		Without	
Backup Generator		With	Without	With	Without
Auto start	hybrid system	Included		Included	
Charger	Power	2.5kw		2.5kw	
Trailer Details	Axle	Single		Dual	
	Tire and Rim Size	185/70 R14 79H		185/70 R14	
	Outrigger	4*Manual		4*Manual	
	Standard	US		US	
	Color	White		White	
	Tow Hitch	Ball Type		Ball Type	
Tower Dimensions	L*W*H(mm) Shipping	2650*1750*2200		2600*2300*23	
	L*W*H(mm) Transporting	3550*1750*2500		3700*2300*25	
	L*W*H(mm) Operating	5500*3400*9000		4700*6500*90	
	Weight(kg)	1550	1400	2300	2100

SOLAR LIGHT TOWER

No Fuel

No Noise

No Emissions

Mobile solar light tower is ideal solution for work site construction site, mine, oil field, emergency rescue, parking lot, sports and millitary base temporary lighting.

Solar Lighting Tower with its advantage of no noise, no emmission and no fule, has been exported and imported to many countries. As time passes by the use of Solar Panels and Solar Light Towers is drastically increasing. Sun powered vitality is the future and sun oriented light towers also known as Solar light towers are a more intelligent, less expensive option in contrast to customary diesel light towers.

PRODUCT FEATURE OF LIGHT TOWER

Power full Solar Hybrid Light Tower

These Solar Hybrid Light Tower provide an independent light source, are excellent pieces of equipment for a variety of different applications such as construction, mining, agricultural and industrial sectors and more. High bright light fixtures top a variable-height mast, powered by Solar generator. The units are quite stable and can withstand the tough environments

Features of Our Items

Multi-directionally adjustable and tiltable floodlights
7 sections vertical tower 8.5 m, 340° rotatable
Galvanized metalworks
80 µm powder coating
Transversal forklift pockets for effective handling
Plug & play, colour coded cables and connectors
Guided main coiled cable to avoid damage during tower operation
Certified wind stability up to 110 km/h
4 height adjustable stabilizers + front jockey wheel
On board levels for guidance during stabilization
Running time before refill 3000 hours
24volt DC Battery
Recharging in 18 hours
230V 1PH Battery charger built-in

Product General Features

Pull-Out Solar Panel

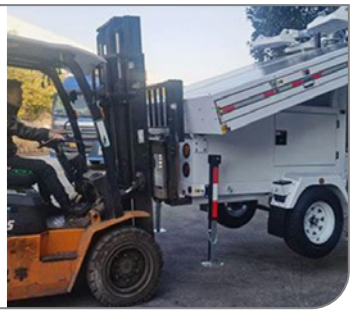
1. Protect panel to extend life time
2. Smaller size, easier transportation
3. Smaller size, saving shipping cost.

Ac/Dc Outlet

The system is equipped with inverter and outlet plug to charge other electronics

Fork Lift Hole

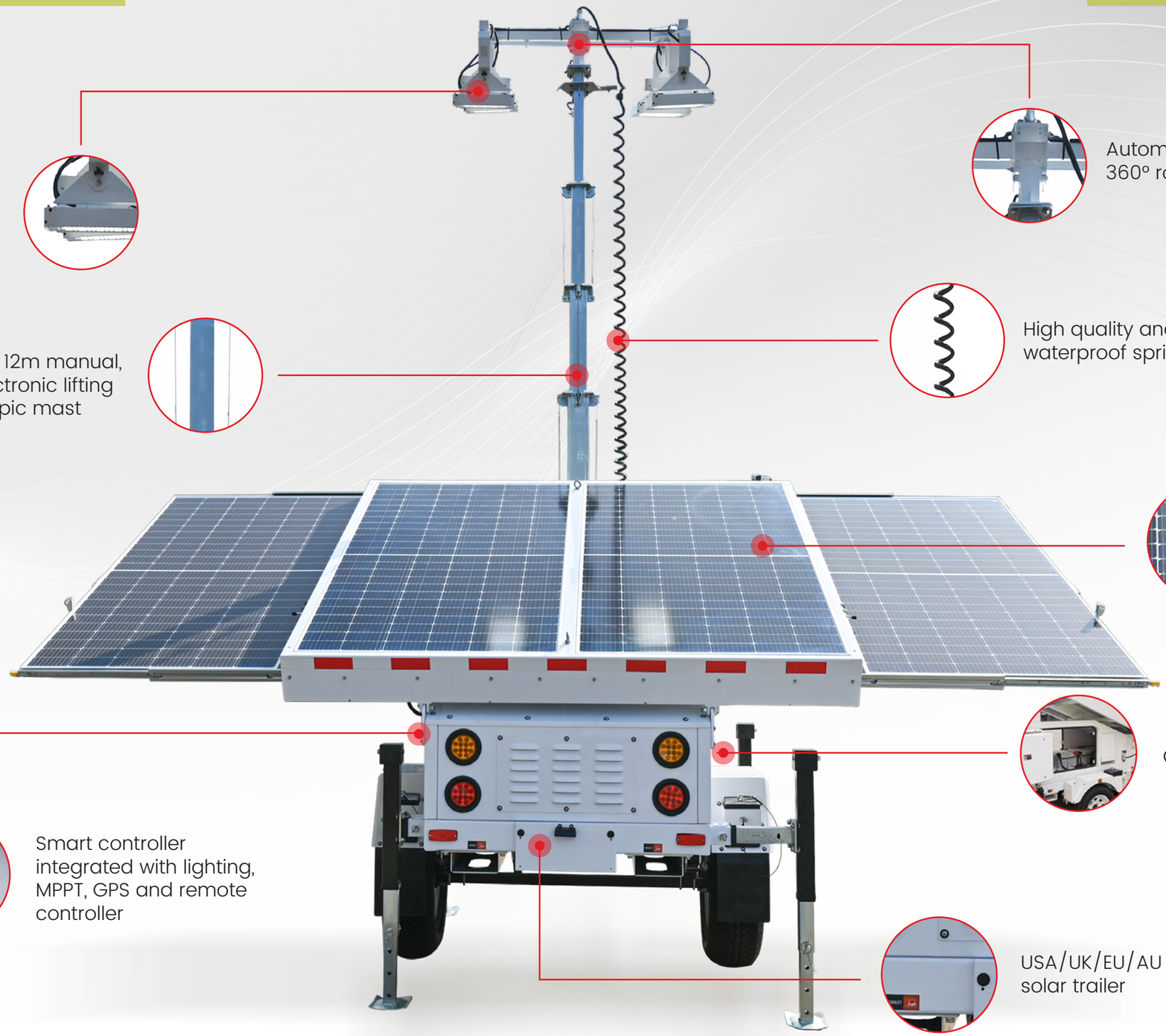
1. Easier transportation
2. Save labor cost
3. Design for rental



Two Door Each Side

1. Easier maintenance
2. Friendly using design
3. Good ventilation

ABOUT SOLAR LIGHT TOWER



High efficient outdoor LED flood light over 150lm/w

Automatic Mechanical 360° rotation and tilt

6.5m, 7m, 9m 12m manual, hydraulic, electronic lifting winch telescopic mast

High quality and reliable waterproof spring cable

Drawer type foldable solar panel

Generator backup box

Smart controller integrated with lighting, MPPT, GPS and remote controller

USA/UK/EU/AU standard solar trailer

EBP SERIES

BATTERY / ELECTRICAL POWERED

NEXT GENERATION MOBILE LIGHT TOWER, DESIGNED FOR PROFESSIONALS.

MODEL

EBP MODEL

MLT-1K2-M
(MANUAL ELEVATION)

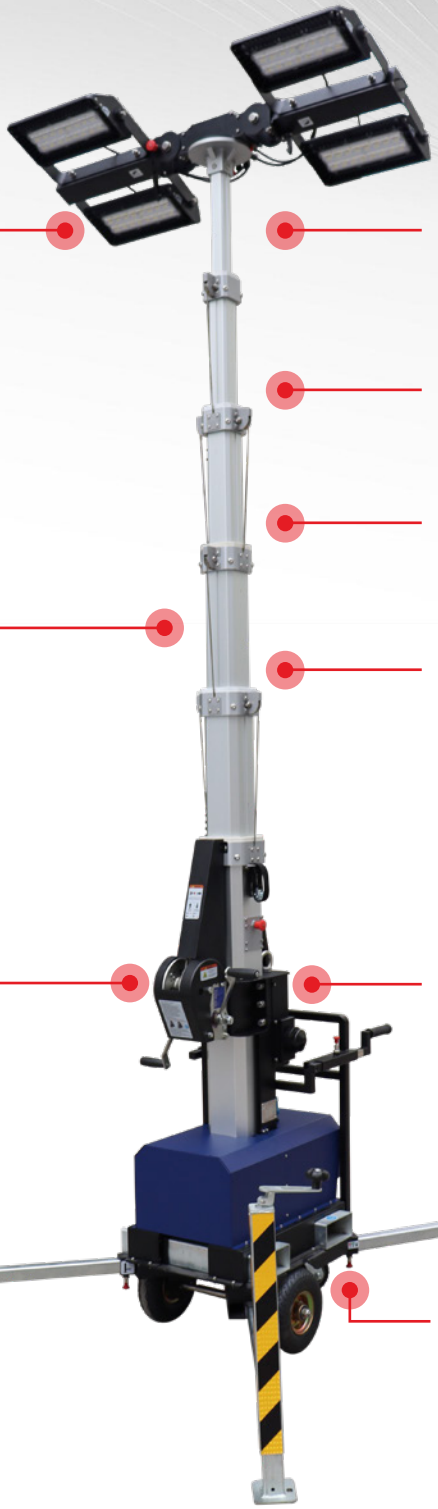
MLT-1K2-E
(ELECTRIC ELEVATION)

Atlas easily replaces diesel driven light towers with much less weight and a fraction of the energy required, delivering low glare, brilliant light coverage in half the size of standard light towers.

NEXT GENERATION MOBILE LIGHT TOWER, DESIGNED FOR PROFESSIONALS

LIGHTING PERFORMANCE

- 4,296m² Min. 5 lux
- 4,296m² Avg. 25 lux
- Dark Sky Optics
- lm 168,000



- 340° Rotatable Mast
- Linkable — LINK UP TO 2 UNITS FROM A SINGLE POWER SOURCE
- Twist & Swap — TWIST & SWAP N EMA SOCKET FOR LIGHT CONTROL SOLUTIONS
- Smart Control — CONTROL, DIM & SCHEDULE THE LIGHTS REMOTELY WITH TWIST & SWAP NEMA SOCKET FOR LIGHT CONTROL SOLUTIONS

OPERATION

- Silent Operation
- Minimal Maintenance
- Plug & Play

OPTIONAL ELECTRIC ELEVATION

- Manual Elevation
- Dimmable — NIGHT MODE LIGHT REDUCTION MINIMIZES ENERGY CONSUMPTION & DISRUPTION TO TRAFFIC AND RESIDENTIAL AREAS

TRANSPORT EFFICIENCY

- Super Compact

MOBILITY

- ADJUSTABLE, RETRACTABLE HANDLES
- JOCKEY WHEEL
- CRANE HOOK
- LARGE FORKLIFT POCKETS (160X80mm)

LV SERIES

(Low Voltage)

BATTERY OPERATED PORTABLE LIGHT TOWER

Designed from the ground up, This is optimized for LED, delivering an unparalleled lighting performance from a robust, 5-meter light tower that fits in your car.

HIGH PERFORMANCE LIGHTING, LOW CARBON FOOTPRINT

LIGHTING PERFORMANCE

2200m² Min. 5 lux

2200m² Avg. 39 lux

lm 112,000

360°4D Light Heads

SIMPLE, FOLD OUT, FULLY ROTATIONAL LIGHT HEADS FOR ANY DESIRED CONFIGURATION

OPERATION

Silent Operation

Minimal Maintenance

Plug & Play

Linkable

LINK UP TO 3 UNITS FROM A SINGLE POWER SOURCE

SAFETY & STABILITY

Drop Prevention Safety System

5M

30m/s Wind Loading

AUTO STOP

Twist & Swap

TWIST & SWAP NEMA SOCKET FOR LIGHT CONTROL SOLUTIONS

SAFETY & STABILITY

Drop Prevention Safety System

5M

30m/s Wind Loading

AUTO STOP

Smart Control

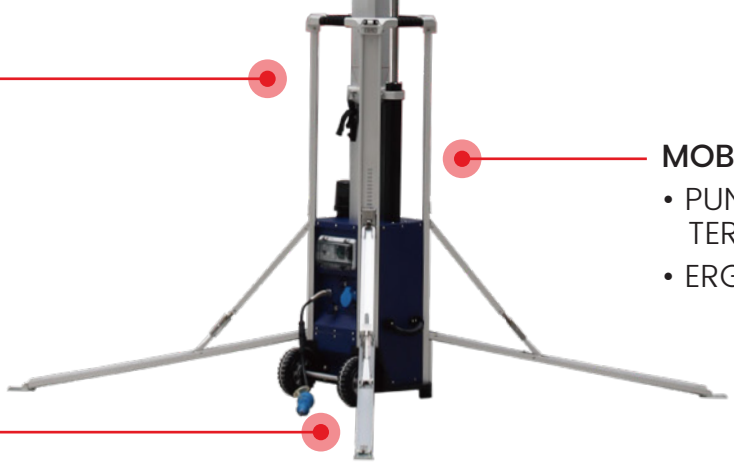
CONTROL, DIM & SCHEDULE LIGHTS REMOTELY

Dimmable

NIGHT MODE LIGHT REDUCTION MINIMIZES ENERGY CONSUMPTION & DISRUPTION TO TRAFFIC AND RESIDENTIAL AREAS

MAST

Electric Elevation



MOBILITY

- PUNCTURE PROOF ALL TERRAIN TYRES
- ERGONOMIC HANDLES

ULTRA COMPACT & LIGHTWEIGHT

Super Compact

<49KG

SPECIFICATION
PORTABLE LIGHT TOWER

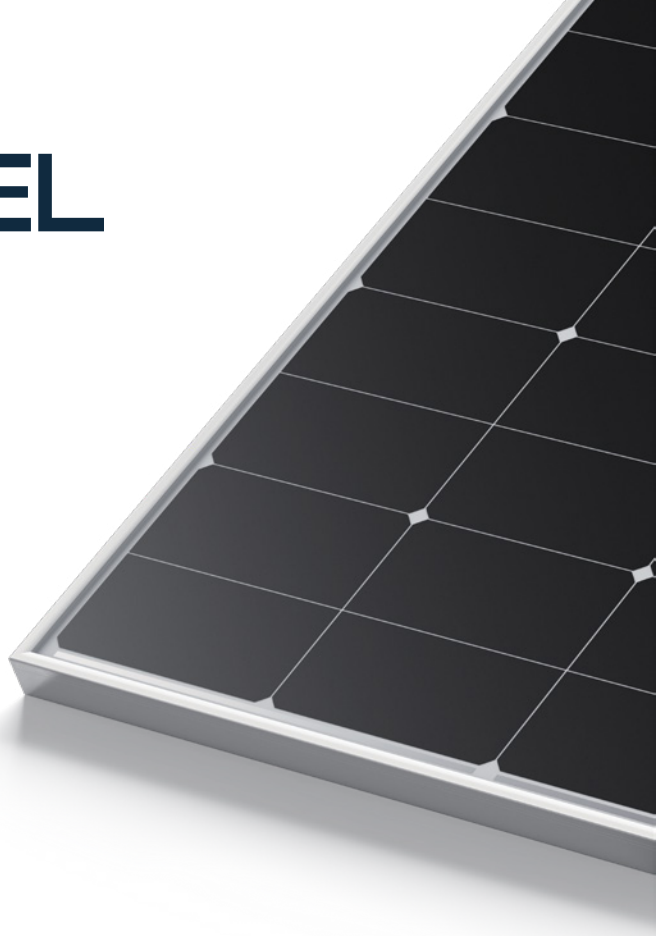
Item	Description	EBP MODEL	BATTERY OPERATED
Model	Model No.	MLT-1K2-M (Manual Elevation) MLT-1K2-E (Electric Elevation)	PLT-800
Performance	Illuminated Surface	4296 m2	2200 m2
	System Power	1,200W	800 W
	Luminous Flux	168,000 lm	112,000 lm
	Lumen/W	140	140
	Beam Profile	-	60x60 (adjustable)
	Color Temperature (CCT)	5000K	5000K
Electrical	Operating Voltage	220-240VAC/50Hz	100VAC 50/60Hz
	Power Factor	>0.92	>0.92
	Electrical Class	Class I	Class I
	Protection	Over Voltage, Over Temperature, Short Circuit	Over Voltage,Over Temperature, Short Circuit
	Dimmable	Yes	Yes
	Input Plug	CEE 230V	-
	Output Socket	Schuko 230V (optional)	-
Environmental	Ambient Operating Temp. Range	-30QC to +4SQC	-30°C to +45°C
	Storage Temp. Range	-40QC to +80QC	-40°C to +80°C
	I K class	IK08	IK08
	IP class	IP65 (lighting)/ IP54 (chassis)	IP65 (lighting) / IP54 (chassis)
	Noise Emissions	< 5 dB(A)	< 5 dB(A)
Physical	Fully extended height	7.1 meters	5.1 meters
	Elevation system	Manual (Electric optional)	Electric
	Mast Rotation	340°	340°
	Mobility	Forklift pockets, crane hook, handles	By hand / crane / forklift
	Dimensions (min.)	788 x 658 x 2046 mm	358 x 427 x 1200 mm
	Dimensions (max.)	1455 x 1752 x 6930 mm	1640 x 1640 x 5100 mm
	Wind Resistance	30 m/s	30 m/s
	Housing Finish	UV stabilised powder coating	UV stabilised powder coating
	Weight	217kg	49kg
Approvals	Certifications	CE	PSE
	Service life L80 B50 (LED)	>100,000 h	>100,000 h

SOLAR PANEL

MODEL

HI-MO 6 SCIENTISTS

LR5-54HTH 435~450M



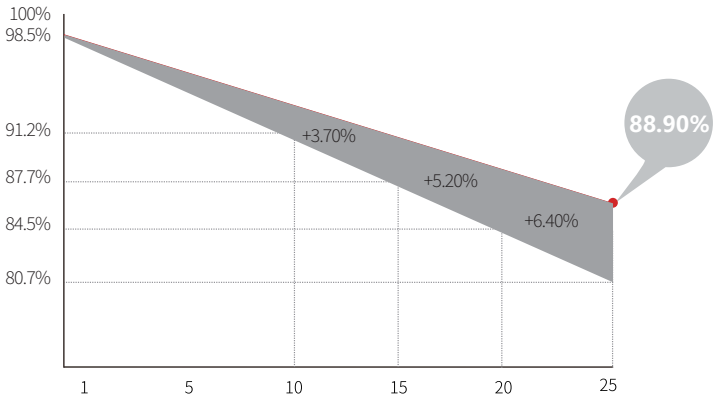
- Suitable for distributed projects
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability

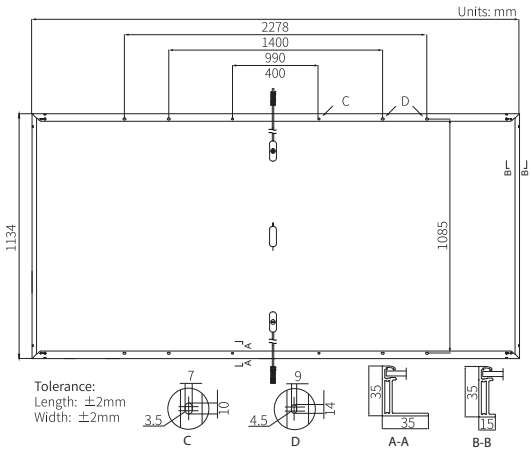
HI-MO 6

LR5-54HTH 435~450M

23.0%	0~3%	<1.5%	0.40%
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION

25-Year Power Warranty





Mechanical Parameters

Cell Orientation	108 (6X 18)
Junction Box	IP68, three diodes
Output Cable	4mm', ±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.8kg
Dimension	1722X 1134X30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 936pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	LR5-54HTH-435M		LR5-54HTH-435M		LR5-54HTH-445M		LR5-54HTH-450M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	435	325	440	329	445	332	450	336
Open Circuit Voltage (Voc/V)	39.33	36.93	39.53	37.11	39.73	37.30	39.93	37.49
Short Circuit Current (Isc/A)	14.22	11.49	14.30	11.55	14.37	11.61	14.45	11.67
Voltage at Maximum Power (Vmp/V)	33.04	30.15	33.24	30.33	33.44	30.51	33.64	30.70
Current at Maximum Power (Imp/A)	13.17	10.78	3.24	10.85	13.31	10.90	13.38	10.95
Module Efficiency(%)	22.3		22.5		22.8		23.0	

Operating Parameters

Operational Temperature	-40'C ~ +85'C
Power Output Tolerance	0~3%
Voe and Isc Tolerance	±3%
Maximum System Voltage	DCIS00V (I EC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2'C
Protection Class	Class II
Fire Rating	Ultype 1 or 2 IEC Class C

SOLAR PANEL

MODEL

ODA-144MH

POWER RANGE	CELL SIZE
430~460W	166*83MM

Half-cut Technology
New circuit design, lower internal current and lower internal resistance loss

Significantly avoiding heat spot
The unique circuit design to reduce the temperature of heat spot significantly,so that to reduce the power loss and then increase the output of modules.

Lower cost
Increasing power generation can reduce the cost per kilowatt-hour

Excellent performance of PID resistance
The performance of PID resistance(Potential Induced Degradation) passed the standard of TUV Nord.

TECHNICAL SPECIFICATIONS
SOLAR PANEL RATINGS

ODA-144MH

Electrical Data (STC)

Model Type	ODA430-36V-MH	ODA440-36V-MH	ODA450-36V-MH	ODA460-36V-MH
Peak Power (Pmax)	430.00	440.00	450.00	460.00
Maximum Power Voltage (Vmp)	40.70	41.10	41.50	41.90
Maximum Power Current (Imp)	10.57	10.71	10.85	10.99
Open Circuit Voltage (Voc)	48.50 ±3%	48.90 ±3%	49.30 ±3%	49.70 ±3%
Short Circuit Current (Isc)	11.31 ± 3%	11.46 ± 3%	11.60 ± 3%	11.72 ± 3%
Module Efficiency (%)	19.78	20.24	20.74	21.16

STC: Irradiance 1000 W/m², AM1.5 and cell temperature of 25°c

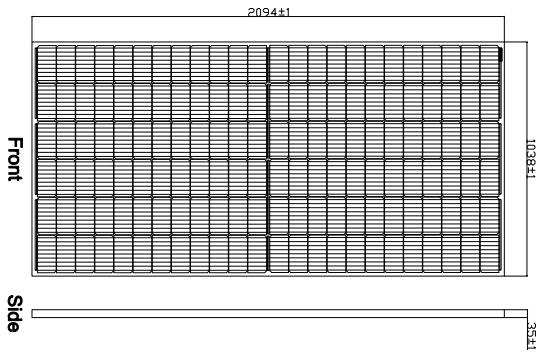
Electrical Data (NOCT)

Model Type	ODA430-36V-MH	ODA430-36V-MH	ODA430-36V-MH	ODA430-36V-MH
Peak Power (Pmax)	321.10	328.60	336.10	343.50
Maximum Power Voltage (Vmp)	37.90	38.30	38..60	39.00
Maximum Power Current (Imp)	8.47	8.59	8.70	8.80
Open Circuit Voltage (Voc)	45.50±3%	45.80±3%	46.20±3%	46.60±3%
Short Circuit Current (Isc)	9.15±3%	9.27±3%	9.38±3%	9.48±3%

STC: Irradiance 800 W/m², AM1.5 ambient temperature 20°c, wind speed 1m/d

Temperature & Maximum Rating	
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	20A
Power Tolerance	0~+3 W
Pmax Temperature Coeffcients (W/°C)	-0.350 %/°C
Voc Temperature Coeffcients (V/°C)	-0.270 %/℃
Isc Temperature Coeffcients (A/°C)	+0.048 %/°C
NOCT Nominal Operating Cell Remperature (℃)	45Â±2°C
Operating and Storage Temperature (℃)	-40~+85°C

Mechanical Characteristics	
Cell Type	166*83□Mono
No. of Cells	144 (12*12)
Dimensions	2094*1038*35mm
Weight	23.50kg
Front Glass	3.2mm high transmission low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm² cable 35cm (Inlcuding MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa



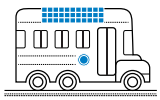
(50A-100A) SERIES CHARGE CONTROLLER

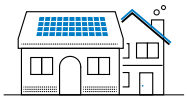
OVERVIEW

Tracer-AN (50A-100A) series is the largest charge controller series in EPEVER's product range and can take up to 5KW solar panel. For even more power, the user can use PAL-ADP-50N to connect max. 6 units of a controller in parallel for up to 30KW system. The multiple dry contact signals are designed for a diversified application.

Features

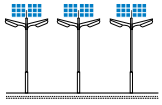
- MPPT tracking efficiency above 99.5%
- Maximum charge conversion efficiency as high as 98%
- Support lead-acid and lithium-ion batteries
- Common negative grounding, Charging current up to 100A
- Charging power and current limitation function
- High-temperature charging power derating function
- 3 relays design for different demand: utility, generator and load
- Support up to 6 units in parallel
- Remote temperature and voltage sensor design
- Isolated RS-485 with 5VDC/200mA and MODBUS protocol
- Nitharlands for MPPT
- Blotooth feature

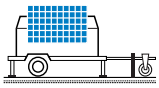

Solar Car


Solar Home


Solar Backpack


Solar Boat


Solar Street Light


Solar Power Generator

TECHNICAL SPECIFICATIONS

MPPT SOLAR CHARGE CONTROLLER

Model	Tracer 6210AN	Tracer 5415AN	Tracer 6415AN	Tracer 8415AN	Tracer 10415AN	Tracer 5420AN	Tracer 6420AN	Tracer 8420AN	Tracer 10420AN
Nominal system voltage	12/24VDC/Auto	12/24/36/48VDC/Auto							
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO4/Li(NiCoMn)O2)/User								
Battery input voltage range	8V~32V	8V~68V	8V~68V	8V~68V	8V~68V	8V~68V	8V~68V	8V~68V	8V~68V
Rated charge current	60A	50A	60A	80A	100A	50A	60A	80A	100A
Rated charge power	750W/12V 1500W/24V	625W/12V 1250W/24V 1875W/36V 2500W/48V	750W/12V 1500W/24V 2250W/36V 3000W/48V	1000W/12V 2000W/24V 3000W/36V 4000W/48V	1250W/12V 2500W/24V 3750W/36V 5000W/48V	625W/12V 1250W/24V 1875W/36V 2500W/48V	750W/12V 1500W/24V 2250W/36V 3000W/48V	1000W/12V 2000W/24V 3000W/36V 4000W/48V	1250W/12V 2500W/24V 3750W/36V 5000W/48V
Max. conversion efficiency	98.00%	98.30%	98.60%	98.50%	98.60%	98.30%	98.10%	98.50%	98.50%
Tracking efficiency	≥99.5%								
Max. PV open circuit voltage	100V (At minimum operating environment temperature) 92V (At 25℃ environment temperature)	150V (At minimum operating environment temperature) 138V (At 25℃ environment temperature)				200V (At minimum operating environment temperature) 180V (At 25℃ environment temperature)			
MPP voltage range	(Battery Voltage +2V)~72V	(Battery Voltage +2V)~108V				(Battery Voltage+2V)~144V			
Equalization voltage	Sealed:14.6V,Flooded:14.8V,User-defined:9-17V								
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V,User-defined:9-17V								
Float voltage	Gel/Sealed/Flooded:13.8V,User-defined:9-17V								
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V,User-defined:9-17V								
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V,User-defined:9-17V								
Self-consumption	98mA/12V;60mA/24V;50mA/36V;46mA/48V								
Temperature compensation (for lead-acid battery)	−3mV/℃/2V(Default)								
Relative humidity	5% to 95% (N.C.)								
Enclosure	IP20								
Communication interface	RS485(5VDC/200mA, Two RJ45 ports in parallel)								
Grounding	Common negative								
Operating temperature range	`-25℃ ~+60℃(derating above 45℃)								
Dimensions(LxWxH)(mm)	340×232×105.2	261×216×119	340×236×119	394×240×134	394×242×143	261×216×119	340×236×119	394×240×134	394×242×143
Net weight	3.5kg	3.5kg	4.5kg	6.1kg	7.4kg	3.5kg	4.5kg	6.1kg	7.4kg
1. The controlller can't automatically identify system voltage if lithium batteries were connected.									
2. The voltage point is for 12V system, please *2 in 24V system, *3 in 36V system, *4 in 48V system.									

alrouf
LIGHTING TECHNOLOGY CO.Ltd.

L E D

شركة الـــروف
لتقنيـــة الإنـــارة المحـــــدودة

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