E-AblePower Technology

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ALL-IN-TWO SOLAR STREET LIGHT · SERIES DATASHEET

SUNBEAM

All-in-two solar street light · YP-150 / YP-200-A / YP-200

SunBeam keeps the battery, the MPPT controller and the LED array inside a sealed die-cast head and mounts the photovoltaic panel on its own bracket. The panel can be aimed independently of the head, so a road running east–west can still carry a south-facing array. Three models cover 60 W to 70 W of LED output on 8 m to 12 m poles with 150 W to 200 W of panel.

PANEL POWER
150–200 W

LED OUTPUT
60–70 W

LUMINOUS FLUX
9,600–12,800 lm

INGRESS PROTECTION
IP65

Municipal roads · rural village roads · car parks · campus and compound lighting · access roads



All-in-two solar street light

SERIES AT A GLANCE

MODELS AND HEADLINE RATINGS

Model	LED output	Luminous flux	Solar panel	LiFePO4 battery	Mounting height
YP-150	60 W	9,600 lm	150 W / 18 V	576 Wh	8–10 m
YP-200-A	70 W	12,800 lm	150 W / 18 V	640 Wh	8–10 m
YP-200	70 W	12,800 lm	200 W / 18 V	640 Wh	10–12 m

WHY THE SUNBEAM

ENGINEERING CHOICES THAT MATTER ON SITE

Battery in the head

The LiFePO4 pack and the controller sit inside the sealed luminaire, off the ground and out of reach of cable theft and flood water.

Bat-wing distribution

Polarised bat-wing optics widen the lit area so poles can be spaced 30–40 m apart on rural and municipal roads.

Battery state indicator

A three-colour LED shows charging, battery state and load state without opening the housing.

Independent panel

The array is carried on its own bracket and can be aimed at the sun while the head follows the road alignment.

Intelligent power control

IPC 5.0 reads recent weather and re-plans the nightly discharge, trading brightness for autonomy before the reserve runs down.

Six working profiles

L / T / M / U / DEMO / OFF, selected by infrared remote; U raises output 30 % for the first three hours.

THE ALL-IN-TWO RANGE

WHERE THIS SERIES SITS

Series	LED output	Luminous flux	Solar panel	Mounting height
AuroraPath	12–50 W	1,800–8,000 lm	30–120 W	3–10 m
SunBeam ▸	60–70 W	9,600–12,800 lm	150–200 W	
Flyhorse	30–50 W	5,800–9,300 lm	100–150 W	7–10 m
Sailing	30–100 W	4,100–14,400 lm	60–150 W	

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ALL-IN-TWO SOLAR STREET LIGHT · TECHNICAL DATA

SunBeam

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TECHNICAL DATA

PER MODEL, FACTORY RATINGS

Parameter	YP-150	YP-200-A	YP-200
LAMP HEAD			
LED output	60 W	70 W	70 W
Luminous flux	9,600 lm	12,800 lm	12,800 lm
LED chips	140 pcs 5050	140 pcs 5050	140 pcs 5050
Light distribution		Bat-wing lens with polarised light	
Colour temperature		6,000–7,000 K	
CRI		≥ 70 Ra	
Lifespan		50,000 h	
Ingress protection		IP65	
SOLAR PANEL			
Power	150 W / 18 V	150 W / 18 V	200 W / 18 V
Cell type		Monocrystalline silicon	
Cell efficiency		19–20 %	
BATTERY			
Chemistry		LiFePO4	
Capacity	576 Wh	640 Wh	640 Wh
Charge cycles		2,000	
SYSTEM			
Controller		MPPT with intelligent power control	
Working modes		L / T / M / U / DEMO / OFF via remote	
Autonomy		5–7 rainy days on a full charge	
Operating temperature		−20 °C to +60 °C (charge above 0 °C)	
INSTALLATION			
Mounting height	8–10 m	8–10 m	10–12 m
Pole top diameter		60 mm	
Installation spacing		30–40 m	

NOTES

- Flux values are the rated figures of the factory test report; production tolerance ± 5 %.
- Charging is inhibited below 0 °C to protect the cells; discharge continues to −20 °C.
- Pole, foundation and anchor bolts are project items and are not part of the luminaire scope.

CONTROL AND PROTECTION

HOW THE SYSTEM MANAGES ITSELF

Battery power indicator

A visible indicator shows charge and discharge state without opening the housing.

Intelligent power control

IPC 5.0 reads recent weather and re-plans the nightly discharge before the reserve runs down.

Dual protection

Software and hardware limits on charge and discharge; 2,000 cycles with 90 % capacity retained.

Infrared remote, six profiles

L / T / M / U / DEMO / OFF; U raises output 30 % for the first three hours.

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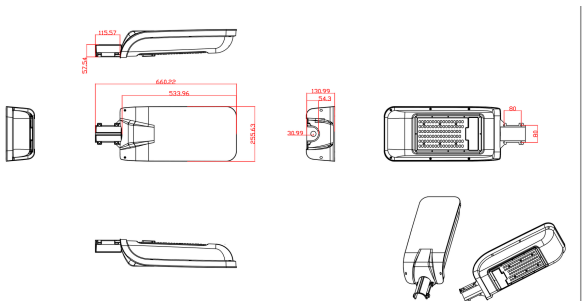
ALL-IN-TWO SOLAR STREET LIGHT · OPTICS, INSTALLATION AND SCOPE

SunBeam

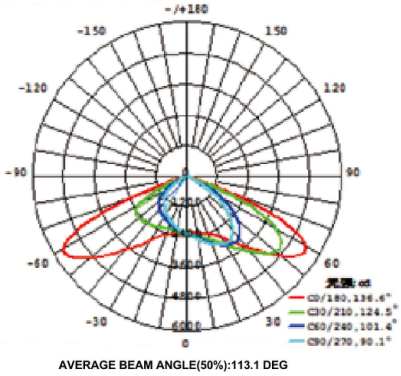
All-in-two solar street light · YP-150 / YP-200-A / YP-200

DRAWINGS AND LIGHT DISTRIBUTION

FACTORY 2D DRAWING AND PHOTOMETRIC REPORT



Outline drawing — lamp head and panel bracket, mm



YP series

Luminous intensity distribution — cd

INSTALLATION

RECOMMENDED PRACTICE

Pole	60 mm top diameter; 8–10 m for YP-150 and YP-200-A, 10–12 m for YP-200
Head fixing	Clamp-on bracket on the pole; the head is delivered assembled with battery and controller
Panel orientation	Independent bracket, aimed at true south or true north; keep the panel clear of head shadow
Cable	Panel-to-head cable supplied; no trenching and no external battery box
Commissioning	Select the working profile by remote and confirm the charge indicator before handover

SCOPE OF SUPPLY AND ORDERING

WHAT SHIPS AND WHAT IS QUOTED SEPARATELY

In the box	Lamp head with integrated LiFePO4 battery and MPPT controller, separate monocrystalline panel, panel bracket, panel-to-head cable, infrared remote
Ordering	Model + quantity + pole height + mounting height; pole and foundation quoted separately
Documentation	This datasheet, IES photometric file, installation manual, CE / RoHS certificates on request

PROJECT SIZING

Send road width, pole spacing and site coordinates — we return a DIALux layout and a model recommendation.

PHOTOMETRIC FILES

IES / LDT files, 2D drawings and the installation manual for this series are available on request.

CONTACT

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Source. Factory technical datasheet “Solar Power Street Light (YP series)”, “Solar Street Light Y series”, size drawing, product renders.
Disclaimer. Values are factory ratings at 25 °C ambient and are subject to the tolerances stated above. Final configuration, pole height and foundation are confirmed in the order acknowledgement. E-Able Power reserves the right to change components without notice provided performance is not reduced. | EAP-DS-20261109-SUNBEAM-R01 | Rev. 1.0