E-AblePower Technology

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ALL-IN-TWO SOLAR STREET LIGHT · SERIES DATASHEET

SAILING

All-in-two solar street light · RS-SL80P / 100P / 120P / 120-A / 200P / 300P

The Sailing series is the coastal and high-wind branch of the all-in-two range: a low-drag die-cast housing with a sea-salt coating, an umbrella-shaped panel that shades the battery compartment, and a spirit level in the head to speed up alignment. Six models run from 30 W to 100 W of LED output on 6 m to 10 m poles, with panels from 60 W to 150 W.

LED OUTPUT
30–100 W

LUMINOUS FLUX
4,100–14,400 lm

SOLAR PANEL
60–150 W

INGRESS PROTECTION
IP65

Coastal roads · ports and terminals · islands · boulevards · bridge approaches · high-wind corridors



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
RS-SL80P	30 W	4,100–4,300 lm	60 W / 6 V	192 Wh	6–7 m
RS-SL100P	40 W	6,000–6,300 lm	80 W / 18 V	256 Wh	7–8 m
RS-SL120P	50 W	6,800–7,200 lm	80 W / 18 V	320 Wh	7–8 m
RS-SL120-A	60 W	8,500–9,000 lm	100 W / 18 V	384 Wh	8–10 m
RS-SL200P	80 W	11,900–12,600 lm	120 W / 18 V	512 Wh	8–10 m
RS-SL300P	100 W	13,600–14,400 lm	150 W / 18 V	640 Wh	8–10 m

WHY THE SAILING

ENGINEERING CHOICES THAT MATTER ON SITE

Marine-grade housing

Die-cast aluminium with a sea-salt coating for coastal roads, ports and islands.

Low-drag profile

The fairing and the inclined panel keep wind load down on exposed spans and bridge approaches.

Umbrella panel

The panel overhangs the head and shades the battery compartment, lowering cell temperature in hot climates.

Two-axis aiming

The panel tilts 0–60° in two axes, so the array follows site latitude and true south or north.

Spirit level in the head

A built-in level lets the installer set the head angle without extra tools.

Stress-tested battery

The RS-SL300P pack has a UN38.3 transport report and a sea-freight declaration on file.

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

Sailing

All-in-two solar street light · RS-SL80P / 100P / 120P / 120-A / 200P / 300P

TECHNICAL DATA

PER MODEL, FACTORY RATINGS

Parameter	RS-SL80P	RS-SL100P	RS-SL120P	RS-SL120-A	RS-SL200P	RS-SL300P
LAMP HEAD						
LED output	30 W	40 W	50 W	60 W	80 W	100 W
Luminous flux	4,100–4,300 lm	6,000–6,300 lm	6,800–7,200 lm	8,500–9,000 lm	11,900–12,600 lm	13,600–14,400 lm
LED chips	140 pcs 3030	140 pcs 5050	140 pcs 5050	140 pcs 5050	140 pcs 5050	140 pcs 5050
Beam angle	155° × 55°					
Colour temperature	3,000–7,500 K					
CRI	≥ 70 Ra					
Housing	Die-cast aluminium with sea-salt coating					
Lifespan	50,000 h					
Ingress protection	IP65					
SOLAR PANEL						
Power	60 W / 6 V	80 W / 18 V	80 W / 18 V	100 W / 18 V	120 W / 18 V	150 W / 18 V
Cell type	Monocrystalline silicon					
Cell efficiency	19–22 %					
BATTERY						
Chemistry	LiFePO4, Grade A					
Capacity	192 Wh	256 Wh	320 Wh	384 Wh	512 Wh	640 Wh
Charge cycles	2,000 (90 % capacity retained)					
SYSTEM						
Controller	MPPT, multi-peak tracking					
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	6–7 m	7–8 m	7–8 m	8–10 m	8–10 m	8–10 m
Pole top diameter	60 mm	60 mm	60 mm	60 mm	76 mm	76 mm
Installation spacing	20–40 m					

NOTES

- Flux is stated as a measured range from the factory test report, not a single nominal figure.
- The 80 P uses 3030 chips; all other models use 5050 chips. Both share the same 155° × 55° bat-wing lens.
- Pole, foundation and anchor bolts are project items and are not part of the luminaire scope.

CONTROL AND PROTECTION

HOW THE SYSTEM MANAGES ITSELF

Multi-peak MPPT

The controller follows several power peaks on a partly shaded array instead of settling on the first one.

ICD charge and discharge

Current equalisation plus software and hardware protection; 90 % capacity after 2,000 cycles.

Dual low-power consumption

Transport current below 0.05 mA and storage current in the µA range, so stock can wait two years.

Infrared remote, six profiles

L / T / M / U / DEMO / OFF, selected on site and retained after power loss.

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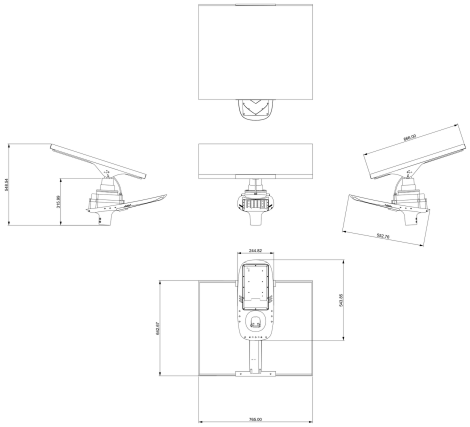
ALL-IN-TWO SOLAR STREET LIGHT · OPTICS, INSTALLATION AND SCOPE

Sailing

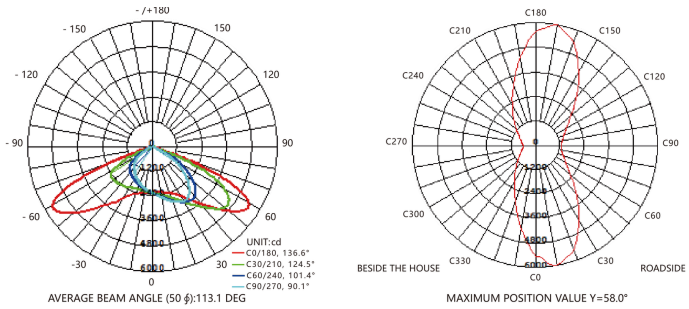
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DRAWINGS AND LIGHT DISTRIBUTION

FACTORY 2D DRAWING AND PHOTOMETRIC REPORT



Outline drawing — lamp head and panel bracket, mm



Solar Sailing Light III

Luminous intensity distribution — cd

INSTALLATION

RECOMMENDED PRACTICE

Pole	60 mm top diameter up to RS-SL120-A; 76 mm for RS-SL200P and RS-SL300P
Head fixing	Clamp-on bracket; head and panel ship separately and are assembled on site
Panel orientation	Aim at true south or true north, tilt to site latitude; the spirit level in the head sets the head angle
Cable	Panel-to-head cable supplied; no trenching
Commissioning	Select the working profile by remote, confirm the charge indicator, record the serial number

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, bracket set, 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, UN38.3 and MSDS for the battery 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 datasheet “Solar Sailing Light series specs 2025” (six models), Solar Sailing Light II and III drawings, 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-SAILING-R01 | Rev. 1.0