E-AblePower Technology

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ALL-IN-TWO SOLAR STREET LIGHT · SERIES DATASHEET

RADIANT SUN

Split solar street light · RS-HS300 / RS-HS400

Radiant Sun is the high-output split branch of the range: the LED head carries no battery, the array is built from two monocrystalline panels on their own bracket, and the LiFePO4 pack sits in a separate die-cast enclosure clamped to the pole. Splitting the three blocks keeps the head light, lets the panels be aimed at the sun, and puts the battery where a technician can reach it without a lift. Two models deliver 100 W and 130 W of LED output on 8 m to 12 m poles.

LED OUTPUT
100–130 W

LUMINOUS FLUX
16,000–20,800 lm

SOLAR PANEL
2 × 150 / 2 × 200 W

MOUNTING HEIGHT
8–12 m

Multi-lane highways · industrial yards · port roads · municipal avenues · interchange lighting



Split solar street light

SERIES AT A GLANCE

MODELS AND HEADLINE RATINGS

Model	LED output	Luminous flux	Solar panel	LiFePO4 battery	Mounting height
RS-HS300	100 W	16,000 lm	2 × 150 W / 18 V	1,536 Wh	8–12 m
RS-HS400	130 W	20,800 lm	2 × 200 W / 18 V	1,920 Wh	10–12 m

WHY THE RADIANT SUN

ENGINEERING CHOICES THAT MATTER ON SITE

Three blocks, three jobs

Head, array and battery enclosure are separate, so each one can be sized, aimed and serviced on its own terms.

Battery at working height

The pack sits in its own enclosure on the pole, reachable from a ladder instead of a bucket truck.

Wide 60° × 140° beam

A broad asymmetric distribution for multi-lane carriageways and open industrial yards.

200 lm/W SMD3030

400 chips per head at 200 lm/W: 16,000 lm from the 100 W model, 20,800 lm from the 130 W model.

Two-panel array

300 W or 400 W of monocrystalline panel, mounted on a bracket that tilts and rotates independently of the head.

Mode memory

The controller keeps the selected working profile after a power loss; no re-programming after a battery change.

THE ALL-IN-TWO RANGE

WHERE THIS SERIES SITS

Series	LED output	Luminous flux	Solar panel	Mounting height
Radiant Sun ▸	100–130 W	16,000–20,800 lm	2 × 150 / 2 × 200 W	8–12 m
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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SPLIT SOLAR STREET LIGHT · TECHNICAL DATA

Radiant Sun

Split solar street light · RS-HS300 / RS-HS400

TECHNICAL DATA

PER MODEL, FACTORY RATINGS

Parameter	RS-HS300	RS-HS400
LAMP HEAD		
LED output	100 W	130 W
Luminous flux	16,000 lm	20,800 lm
Chip efficacy	200 lm/W	
LED chips	400 pcs SMD3030	
Beam angle	60° × 140°	
Colour temperature	6,000–6,500 K	
CRI	≥ 70 Ra	
Housing	Die-cast aluminium, anti-corrosion	
Lifespan	50,000 h	
Ingress protection	IP65	
SOLAR PANEL		
Power	2 × 150 W / 18 V	2 × 200 W / 18 V
Cell type	Monocrystalline silicon	
Cell efficiency	19–22 %	
BATTERY		
Chemistry	LiFePO4	
Capacity	1,536 Wh	1,920 Wh
Enclosure	Separate die-cast box, 534.8 × 181 × 165 mm	
Autonomy	5–7 days on a full charge	
SYSTEM		
Controller	MPPT with intelligent power control	
Working mode	100 % for 2 h, 70 % for 2 h, 30 % to dawn	
Operating temperature	−20 °C to +60 °C (charge above 0 °C)	
INSTALLATION		
Mounting height	8–12 m	10–12 m
Pole top diameter	60 mm	
Installation spacing	30–40 m	

NOTES

- Flux and efficacy are the rated figures of the factory datasheet; production tolerance ± 5 %.
- The battery is a separate enclosure fixed to the pole; head, panels and box ship as three packages.
- 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

Tracks several power peaks on a partly shaded array instead of settling on the first one.

Intelligent power control

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

ICD charge and discharge

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

Mode memory

The working profile is written to memory and survives a power loss or a battery swap.

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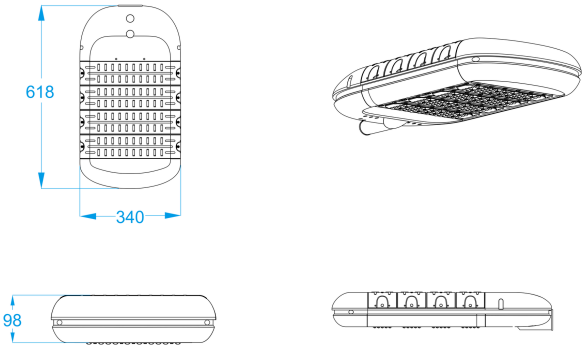
SPLIT SOLAR STREET LIGHT · DRAWINGS, OPTICS AND SCOPE

Radiant Sun

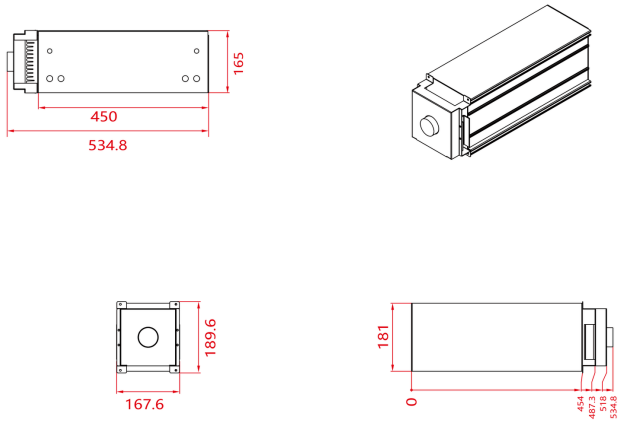
Split solar street light · RS-HS300 / RS-HS400

DRAWINGS AND DIMENSIONS

FACTORY DRAWINGS — LAMP HEAD AND BATTERY BOX



Outline drawing — lamp head and panel bracket, mm



Battery box outline — 534.8 × 181 × 165 mm

INSTALLATION

RECOMMENDED PRACTICE

Pole	60 mm top diameter, 8–12 m for RS-HS300, 10–12 m for RS-HS400
Head fixing	Clamp-on bracket; the head is delivered without battery, so it is light to lift
Panel orientation	Two panels on one bracket, aimed at true south or true north, tilt set to site latitude
Battery box	Die-cast enclosure clamped to the pole below the head, at ladder height; cable enters from the bottom
Commissioning	Set the working mode, confirm the charge indicator and record the serial numbers of head and battery

SCOPE OF SUPPLY AND ORDERING

WHAT SHIPS AND WHAT IS QUOTED SEPARATELY

In the box	LED head, two monocrystalline panels with bracket, separate LiFePO4 battery enclosure, panel-to-head and box-to-head cables, MPPT controller, 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 Street Light HS” (RS-HS300 / RS-HS400), Huashan lamp-head 2D drawing, battery-box dimension 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-RADIANT-SUN-R01 | Rev. 1.0