E-AblePower Technology

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SOLARWRAP / VERTICAL SOLAR TUBE

SolarWrap S100

Circular pole-mounted vertical solar tube · 100 W · IP66



100 W	Ø190 × 1040	IP66	3 yr
RATED POWER	DIMENSIONS (MM)	INGRESS PROTECTION	WARRANTY

WHY VERTICAL — six things that matter on site

360° capture. A round tube collects light on every face, so no orientation decision is needed on site.

Low wind load. A slim tube sheds gust load instead of levering it; tested to IEC 60598-2-3 wind requirements.

Modular stack. Two or more tubes stack on the same pole to reach the array voltage the controller needs.

Self-cleaning glass. Rain sheets dust off the tempered glass; no scheduled washing on coastal or desert corridors.

No snow hold. Nothing settles on a vertical face, so winter yield does not collapse after snowfall.

Retrofit ready. Clamps onto an existing pole — no new foundation, no re-poling.

TYPICAL CONFIGURATIONS

A / MODULE ONLY
Retrofit an existing pole
Tube plus MPPT controller feeding the luminaire already in place.

B / MODULE + BATTERY
Pole with battery cylinder
LiFePO4 cylinder inside the pole, controller in the luminaire.

C / MODULE + LIGHT HEAD
Complete solar light
Tubes, battery and LED head supplied as one system.

AT A GLANCE

Model	S100
Rated power (Pmax)	100 W
Dimensions	Ø190 × 1040 mm
Voltage at Pmax (Vmp)	6 V
Current at Pmax (Imp)	16.67 A
Open-circuit voltage (Voc)	7.2 V
Short-circuit current (Isc)	18.33 A

Values are nameplate data at STC. Daily energy depends on latitude, shading and controller settings — see page 2 for the reference yield table.

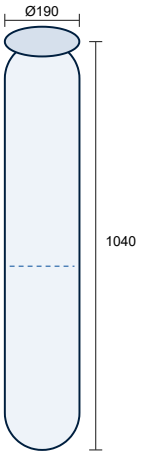
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TECHNICAL DATA

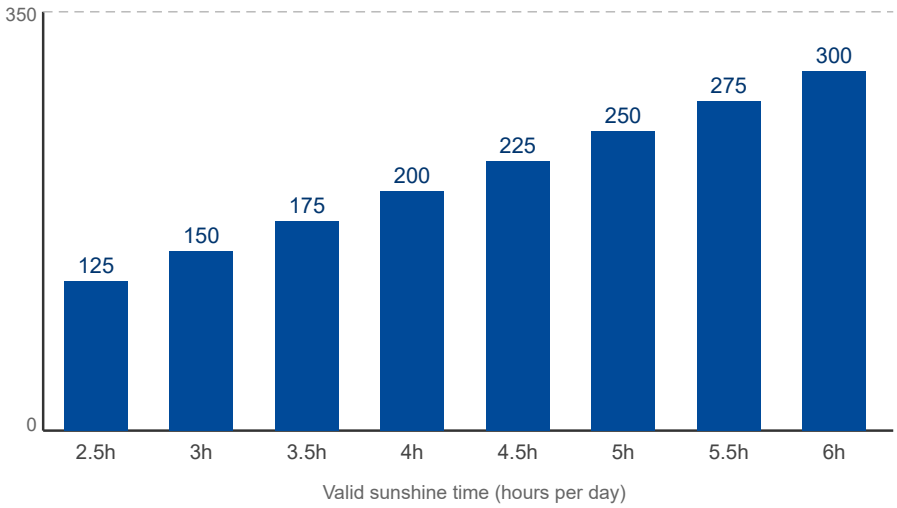
SolarWrap S100 — full specification

Power tolerance	+/-3%
Cell type	MONO, made in Taiwan
Module efficiency	22.50%
Cable / connector	2.5 mm2, Universal MC4
Operating temperature	-20 C to +70 C
Max. pole diameter	70-120 mm
Warranty	3 years

Front glass	High-strength tempered glass
Frame	Aluminium
Mechanical load	Front 5400 Pa / Back 2400 Pa
Ingress protection	IP66
Expected lifetime	>20 years
Wind resistance	IEC 60598-2-3 test, report LCS201222096BS-EA-2026



Outline dimensions (mm)



Reference daily output at 23°N — confirm with local irradiation data

THE SOLARWRAP RANGE

Model	Format	Pmax	Dimensions (mm)	Vmp	Warranty
Q140	Hexagon	140 W	228 × 200 × 1560	18 / 36 V	5 yr
Q200	Hexagon	200 W	228 × 200 × 2060	18 / 36 V	5 yr
S80	Circular	80 W	Ø160 × 1040	6 V	3 yr
S100	**Circular**	**100 W**	**Ø190 × 1040**	**6 V**	**3 yr**
S140	Circular	140 W	Ø240 × 1040	9 V	3 yr
SQ140	Square	140 W	220 × 220 × 1040	18 / 36 V	5 yr
SQ220	Square	220 W	220 × 220 × 1540	18 / 36 V	5 yr

APPLICATIONS

Street & area lighting — new poles or retrofit of existing grid-tied poles.

Garden & park lighting — decorative poles where flat panels are not permitted.

CCTV & monitoring masts — power for cameras and radio links.

Road signs & signal centres — off-grid beacons and warning lights.

IP66 | IEC 60598-2-3 WIND TEST | MC4 | LIFETIME >20 YR

Notes. 1) Do not connect the MC4 pair of the last module in a string — leave it open or cut the connectors. 2) An MPPT controller is required; PWM controllers reduce yield. 3) Mechanical load figures are test values, not a site-specific structural approval. 4) CE / EMC documentation is not claimed on this sheet; request the current compliance file before tendering.