E-AblePower Technology

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SOLARWRAP / VERTICAL SOLAR TUBE

# SolarWrap S140

Circular pole-mounted vertical solar tube · 140 W · IP66



| 140 W | Ø240 × 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 | S140 |
| Rated power (Pmax) | 140 W |
| Dimensions | Ø240 × 1040 mm |
| Voltage at Pmax (Vmp) | 9 V |
| Current at Pmax (Imp) | 15.55 A |
| Open-circuit voltage (Voc) | 10.8 V |
| Short-circuit current (Isc) | 17.10 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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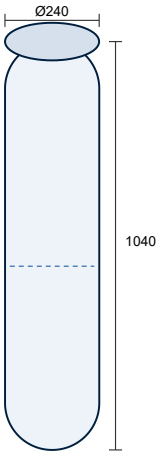
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TECHNICAL DATA

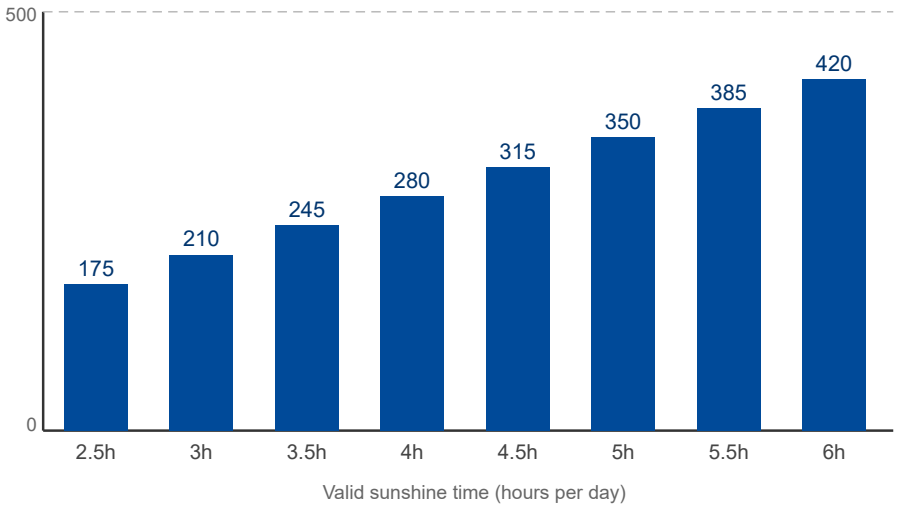
# SolarWrap S140 — full specification

| | |
|---|---|
| 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 | 80-170 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.