E-AblePower Technology

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SOLARWRAP / SERIES DATASHEET

SolarWrap Square

Square-section vertical modules · 180 mm and 220 mm sections · 124–300 W



A square section wraps four faces around the pole and closes with a flat joint, which keeps the finished pole straight and makes the module easy to stack. Two sections cover the range: 180 mm for garden and area lighting, 220 mm for street and high-power builds.

THE RANGE

Model	Format	Pmax	Dimensions (mm)	Vmp	Pole Ø	Warranty
SM124	180 section	124 W	180 × 180 × 1520	36 V	≤ 100 mm	5 yr
SQ164	180 section	164 W	180 × 180 × 1240	36 V	≤ 100 mm	5 yr
SM188	180 section	188 W	180 × 180 × 1520	36 V	≤ 100 mm	5 yr
SM268	180 section	268 W	180 × 180 × 2020	36 V	≤ 100 mm	5 yr
SQ140	220 section	140 W	220 × 220 × 1040	18 / 36 V	≤ 120 mm	5 yr
SQ220	220 section	220 W	220 × 220 × 1540	18 / 36 V	≤ 120 mm	5 yr
SQ260	220 section	260 W	220 × 220 × 1820	36 V	≤ 140 mm	5 yr
SQ300	220 section	300 W	220 × 220 × 2020	36 V	≤ 140 mm	5 yr

Dimensions for SQ140 / SQ220 follow the 2506 datasheet; SQ260 / SQ300 follow the 2026 price list and are pending a factory drawing. Cells, glass, frame and bracket interface are common across the range.

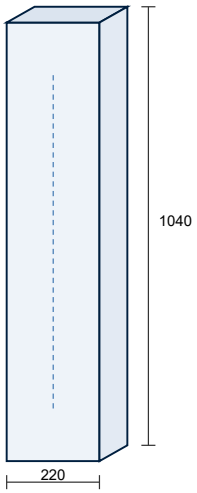
SHARED CONSTRUCTION

Cell	MONO, made in Taiwan
Front glass	High-strength tempered glass
Mechanical load	Front 5400 Pa / back 2400 Pa
Ingress protection	IP66
Cable / connector	2.5 mm², Universal MC4
Operating temperature	−20 °C to +70 °C
Expected lifetime	> 20 years
Wind	IEC 60598-2-3 test, report LCS201222096BS-EA-2026

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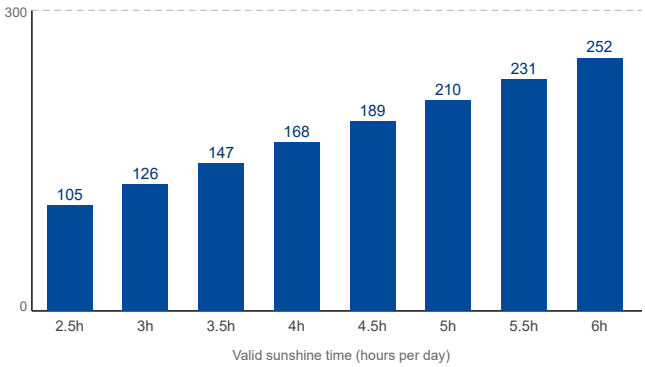
HOW TO SPECIFY

SolarWrap Square — selection and fit



Outline principle (mm) — see model table for exact length

1. Pole first. Measure the outside diameter at the clamp height, not at the base. A tapered pole can move a size class over two metres.
2. Wall thickness. At least 3 mm steel, 4 mm under the clamp band. A thin pole with the right diameter still fails in wind.
3. Array voltage. Add Vmp down the pole and check it against the controller window and the battery class.
4. Access. Anything above 1.5 m needs two people or a MEWP at commissioning and for later service.



Reference daily output at 23 deg N (SQ140) — confirm with local irradiation data

WHAT SHIPS WITH EACH ORDER

Module / tube	master and sub section, nested
Brackets	upper and lower, per pole drawing
Fixings	set screws, length to suit pole
MC4 adapter	300 mm, between sections
Documents	this sheet + installation manual

APPLICATIONS

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

Garden & park lighting — 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) Model-specific electrical data (Voc, Isc, efficiency) is issued on the single-model datasheet — request it for tender submissions. 2) Do not connect the MC4 pair of the last module in a string. 3) MPPT controller required. 4) CE / EMC documentation is not claimed on this sheet. 5) Packing data per model on request.