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SOLARWRAP / SERIES DATASHEET

SolarWrap Circular

Tempered-glass solar tubes · 80–140 W · no orientation decision on site



A round tempered-glass tube collects light on every face, so there is no orientation decision on site and no flat panel to shelter from wind. Tubes stack in series on the same pole to reach the array voltage the controller needs.

THE RANGE

Model	Format	Pmax	Dimensions (mm)	Vmp	Pole Ø	Warranty
S80	Tube	80 W	Ø160 × 1040	6 V	60–90 mm	3 yr
S100	Tube	100 W	Ø190 × 1040	6 V	70–120 mm	3 yr
S140	Tube	140 W	Ø240 × 1040	9 V	80–170 mm	3 yr

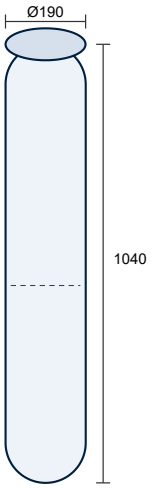
All three tubes share the same 1040 mm length and bracket system, so one installation manual covers the range. A single 6 V tube will not charge a 12.8 V battery — plan two in series minimum.

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

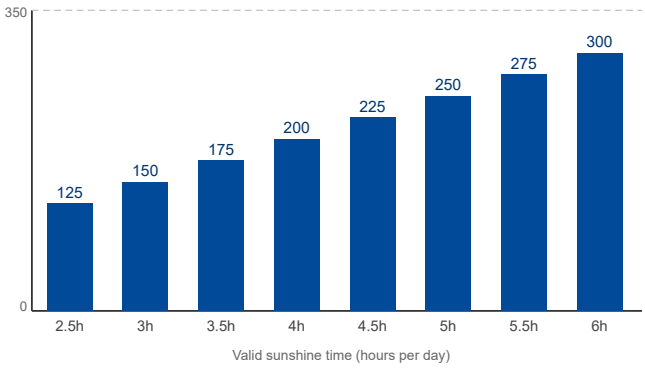
HOW TO SPECIFY

SolarWrap Circular — 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 (S100) — 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.