LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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SOLARWRAP / VERTICAL SOLAR MODULE

SolarWrap SQ140

Square pole-mounted vertical solar module · 220 mm section



WHY VERTICAL — six things that matter on site

360° capture. Flat faces wrap the pole in a square section, collecting light across the day.

Low wind load. A slim square column sheds gust load instead of levering it.

Modular stack. Additional modules slide onto the same pole to raise array power.

Self-cleaning face. Rain sheets dust and sand off a vertical surface; no scheduled washing on dusty sites.

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
Module plus MPPT controller feeding the luminaire already in place.

B / MODULE + BATTERY
Pole with battery cylinder
LiFePO4 cylinder inside the pole below the module.

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

AT A GLANCE

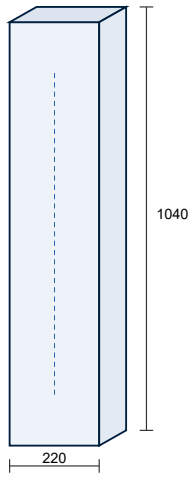
Model	SQ140
Rated power (Pmax)	140 W
Dimensions	220 × 220 × 1040 mm
Voltage at Pmax (Vmp)	18 / 36 V
Max. pole diameter	≤ 120 mm
Warranty	5 years

Front glass, frame and bracket interface are common across the square range; only the section length changes.

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TECHNICAL DATA

SolarWrap SQ140 — the range and the build



Outline principle (mm)

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
Warranty	5 years

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

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) Do not connect the MC4 pair of the last module in a string. 2) MPPT controller required. 3) Dimensions for SQ260 follow the 2026 price list pending a factory drawing. 4) CE / EMC documentation is not claimed on this sheet. 5) Full electrical table (Voc, Isc, efficiency) for this model on request.