



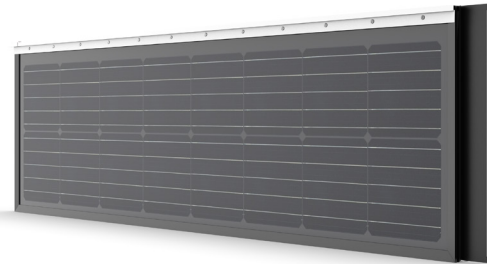
# Luma Solar Shingle 80 Watt (LSS80)

High Efficiency Monocrystalline Solar Shingle

## Features

- ▶ Complete solar roofing system that seamlessly blends solar shingles with non-solar metal shingles
- ▶ Installs like traditional metal roofing
- ▶ Designed for air flow and wire harnesses under the solar shingles
- ▶ Only one penetration is required for the wires to go through the roof deck
- ▶ Solar cells have high conversion efficiencies resulting in superior power output performance
- ▶ Outstanding power output even in low light or high temperature conditions
- ▶ The “Luma Solar Kits” can be integrated with all roofing material

## Dimensions



**L 54.37” x W 15.62” x H 2”**

## Electrical Data (STC\*)

Maximum Power (Pmax)	80W
Performance Tolerance	+ / -3%
Maximum Power Voltage (Vmp)	8.56 V
Maximum Power Current (Imp)	9.34 A
Open Circuit Voltage (Voc)	10.43 V
Short Circuit Current (Isc)	9.89 A
Maximum DC System Voltage US	600 V
Maximum DC System Voltage EU	1000 V
Maximum Series Fuse Rating	15 amp
Efficiency	22.1%

## Temperature Coefficients

NOCT	45 +/- 2° C
Pmax	- 0.42% / °C
Voc	- 0.30% / °C
Operating Temperature	- 40% °C / + 85 °C

## Features

Exposed Area	52.5” x 14.65”
Weight	19.8 lbs
Static wind load	2400 Pa
Static snow load	5400 Pa
Cell Type	Monocrystalline
Solar Cells	2 x 8
Bypass Diode	SCHOTTKY Diodes (PST5040D)
Junction Box	RENHE SOLAR GF26xy (ULE312261)
Potting	DOWSIL TM 3-4207 Dielectric Tough Gel
Metal Shingle	24 ga Galvalume coated steel sheet
Paint Color	Valspar Fluropon SR / Matte Black

## Warranty & Certifications

**25 year** limited power warranty at 80%  
**5 year** limited product warranty

- UL 1703 Certified (US/Canada Listed)
- UL 580 Approved
- ANSI/UL 790 Fire Rating: Class C
- Miami-Dade Hurricane Rating: Class 5+
- TAS 125-03: Wind MPH 200+
- Salt Spray Exposure Rated
- ASTM G 155-05a / B117-07a

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