

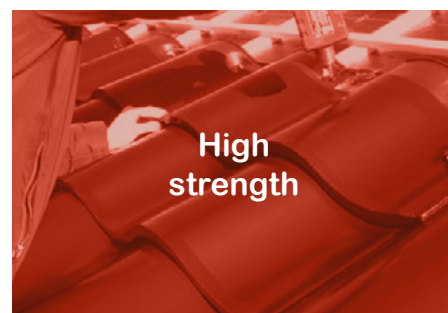
Solar Roof Tile

50W

Solar Roof Tile is the most powerful solution for area or weight constrained flat rooftops. The photovoltaic roof product combine solar panel, frame, and mounting system into a single pre-engineered unit. The nonpenetrating tiles position highest efficiency solar panels at a 5-degree tilt, for greatest energy production.

Tiles interlock for secure, rapid installation and maximum power output. Smooth-edged, durable and lightweight material designed for a 30-year life protects the roof and eliminates the need for electrical grounding. The patented design resists high winds and corrosion and is flexible to adapt to virtually any flat or low-slope roof.

Main Functions



Benefits

- **The Most Energy per Rooftop.**
Produces more energy in an area or weight-constrained space than any other roof system available today.
- **Easy to Install with All-In-One Design.**
Solar panel, frame, and mounting system are integrated into one unit. No grounding or roof penetration needed.
- **Roof-Preserving**
Compatible with all roof membranes. Smooth, lightweight design, combined with a non-penetrating installation, protects the roof and preserves roof warranties.
- **Long Lasting Durability**
Aerodynamic design is resistant to high winds. Strong glass-filled polymer material offers long-term durability. Soiling is minimized with easy water runoff.

Wave Solar Tile

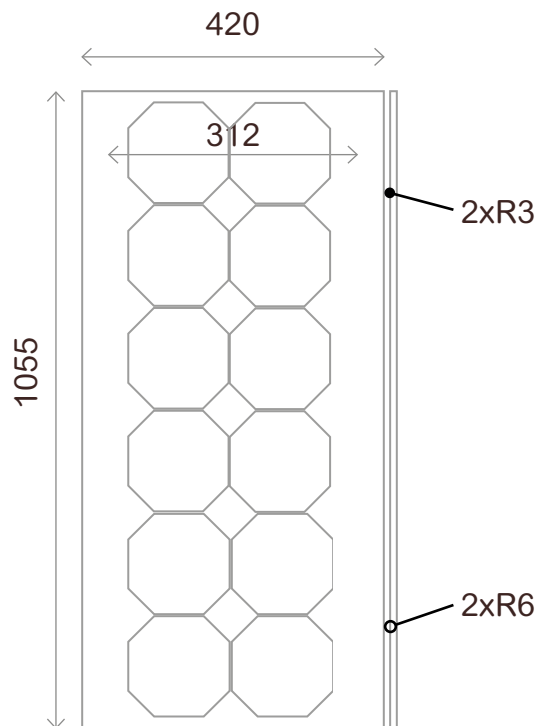
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Electrical Characteristics

All specified Parameters at STC	25°C
Ambient	1000W/m ² irradiance AM 1.5
Max-Power Pm (W)	50
Power Tolerance (W)	±3%
Open-Circuit Voltage Voc (V)	7.68
Short-Circuit Current Isc (A)	8.85
Max-Power Voltage Vm (v)	6.12
Max-Power Current Im (A)	8.24
Cell Efficiency (%)	18.50

Mechanical Characteristics

Cable type, area and lenght	4 mm ² , 700mm
Number of cells	12
Cell size (mm)	156 X 156
Dimension (mm)	1055 X 420 X 25.7
Weight (kgs)	6.00
Frame material	Aluminium
Glass, type and thickness	High Transmission Low Irin Tempered Glass 3.2mm
Compression Strength	> 2400 Pa
Water Permeability	< 0.5%



HDS50T - 12



Packaging

	1 pallet	20' container
size (mm)	1080 x 1120 x 450	40 pallets
QTY	18 pcs	740 pcs

Warranty

10 Years product workmanship warranty	25 Years warranty 80% power output
12 Years warranty 90% power output	Tile Life span 50 years

On-Grid Solar Roof System

50W Solar Tile

Briefs

SYSTEM NO	HDS ZJW-T2000 F50-40	HDS ZJW-T2500 F50-50	HDS ZJW-T3000 F50-60	HDS ZJW-T4000 F50-80	HDS ZJW-T5000 F50-100	HDS ZJW-T6000 F50-120
Maxim Output Power (W)	2000	2500	3000	4000	5000	6000
Quantity of 8W Solar Tiles (pcs)	40	50	60	80	100	120
Working Voltage (V)	249	300	360	240	300	360
Quantity of Each Array (pcs)	40	50	60	40	50	60
Inverter	2KW / 220V	2.5KW / 220V	3KW / 220V	4KW / 220V	5KW / 220V	6KW / 220V
Solar Roof Area (m ²)	24	30	33	48	54	63
Reference Voltage on Grid	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ

Operating Temperature

High heat insulation and antflaming function -40 ±85°C

IV - Curve

