



Solar Roof Tile

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 weightconstrained space than any other roof system available today.
- Roof-Preserving Compatible with all roof membranes. Smooth, lightweight design, combined with a non penetrating installation, protects the roof and preserves roof warranties.
- 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.
- Long Lasting Durability Aerodynamic design is resistant to high winds. Strong glass-filled polymer material offers longterm durability. Soiling is minimized with easy water runoff.



Wave Solar Tile 20W

Electrical Characteristics

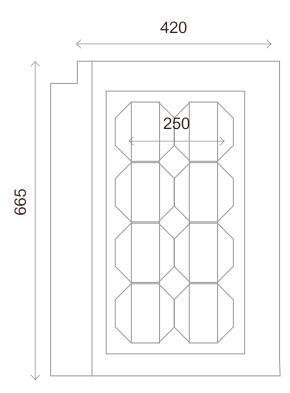
All specified Parameters at STC	25°C
Ambient	1000W/m ² irradiance AM 1.5
Max-Power Pm (W)	20
Power Tolerance (W)	±3%
Open-Circuit Voltage Voc (V)	5.04
Short-Circuit Current Isc (A)	5.68
Max-Power Voltage Vm (v)	3.92
Max-Power Current Im (A)	5.10
Cell Efficiency (%)	17

Mechanical Characteristics

Cable type, area and lenght	2.5 mm ² , 600mm
Number of cells	8
Cell size (mm)	125 x 125
Dimension (mm)	665 x 420 x 30
Weight (kgs)	4.90
Frame material	Ceramic Compound
Glass, type and thickness	High Transmission Low Irin Tempered Glass 3.2mm
Compression Strength	> 2400 Pa
Water Permeability	> 0.5%

HDSF20MS - 8





Packaging

	carton	1 pallet	2 pallet	20' container
size (mm)	680 x 130 440	1400 x 700 x 2000	1400 x 700 x 2000	24 pallets
QTY	4 pcs	80 pcs	160 pcs	1920 pcs

Warranty

10 Years product workmanship warranty

12 Years warranty 90% power output

25 Years warranty 80% power output

Tile Life span 50 years



On-Grid Solar Roof System 20W Solar Tile

Briefs

SYSTEM NO	HDS1600 F20.80	HDS2000 F20.96	HDS2500 F20.128	HDS3200 F20.160	HDS3800 F20.192	HDS4800 F20.240	HDS6400 F20.320
Maxim Output Power (W)	1600	2000	2500	3200	3800	4800	6400
Quantity of 8W Solar Tiles (pcs)	80	96	128	160	192	240	320
Working Voltage (V)	320	384	256	320	384	320	320
Quantity of Each Array (pcs)	80	96	64	80	96	80	80
Inverter	1.5KW / 220V	2KW / 220V	2.5KW / 220V	3KW / 220V	4KW / 220V	5KW / 220V	6.5KW / 220V
Solar Roof Area (m²)	18.1	22.6	29.8	37	44.2	54.9	70.9
Reference Voltage on Grid	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ	220V / 50HZ

Operating Temperature

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

IV - Curve

