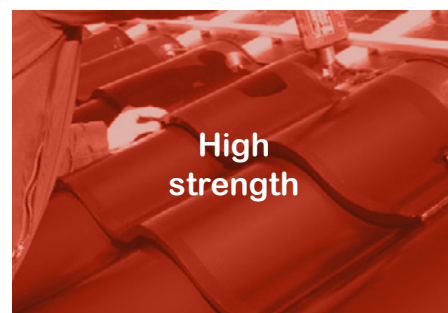# Moving the sun
light to the world

Solar Roof Tile
150W

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

Heat Insulation

Light Protecction & Water Proof

High strength

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.
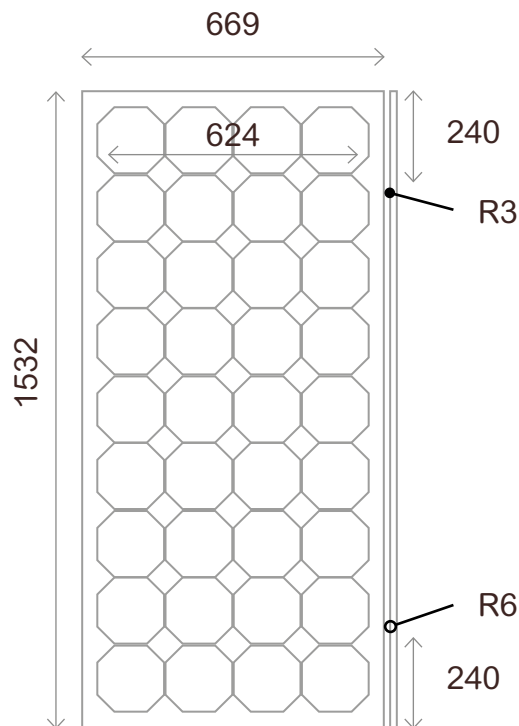
Wave Solar Tile
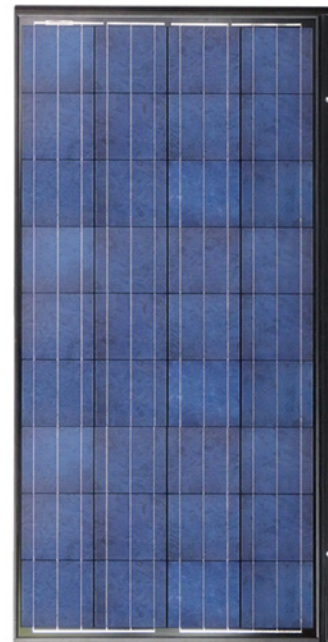## 150W

Electrical Characteristics

All specified Parameters at STC	25°C
Ambient	1000W/m^2 irradiance AM 1.5
Max-Power Pm (W)	150
Power Tolerance (W)	±3%
Open-Circuit Voltage Voc (V)	22.46
Short-Circuit Current Isc (A)	8.57
Max-Power Voltage Vm (v)	18.64
Max-Power Current Im (A)	8.03
Cell Efficiency (%)	18.50

Mechanical Characteristics

Cable type, area and lenght	4mm^2 , 900mm
Number of cells	36
Cell size (mm)	156 X 156
Dimension (mm)	1532 X 699 X 25.7
Weight (kgs)	13.00
Frame material	Aluminium
Glass, type and thickness	High Transmission Low Irin Tempered Glass 3.2mm
Compression Strength	2400 Pa

669
624
240
R3
1532
R6
240

HDS150T - 36

Packaging

	1 pallet	20' container
size (mm)	1640 x 1040 x 920	12 pallets
QTY	20 pcs	240 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
150W Solar Tile

Briefs

SYSTEM NO	HDS ZJW-T2400 150T-16	HDS ZJW-T2700 150T-18	HDS ZJW-T3000 150T-20	HDS ZJW-T3750 150T-25	HDS ZJW-T4500 150T-30	HDS ZJW-T5000 150T-34	HDS ZJW-T6000 150T-40
Maxim Output Power (W)	2400	3700	3000	3750	4500	5000	6000
Quantity of 8W Solar Tiles (pcs)	16	18	20	25	30	34	40
Working Voltage (V)	298	335	372	466	279	316	372
Quantity of Each Array (pcs)	16	18	20	25	15	17	20
Inverter	2.5KW / 220V	2.5KW / 220V	3.0KW / 220V	4.0KW / 220V	4.5KW / 220V	5.0KW / 220V	6.0KW / 220V
Solar Roof Area (m^2)	23	27	31	34	43	46	55
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 ±85ºC

IV - Curve