

Solar Tile Series





les@toenergysolar.com



V Characteristic

Energy Storage Optional

Energy storage system optional,

according to requirements



Power Output Guarantee

145/m²,30 years power generation

guarantee

Safety

Lighter but stronger, best solution for

the waterproof roof top

Architectural Aesthetics

Customized tile shapes and colors to

match the design of the house



Satisfied your needs for whole

residential roof to photovoltaic power station

Easy to Install

Install like traditional tiles, no

additional brackets, no need to damage the roof





• Technical Parameter

Electrical Characteristics(STC)

Roof top area (m ²)	100	200	500	1000	
Total capacity (KW)	14.5	29	72.5	145	
Unit power output (W/m²)		1	45		
Annuai power generation (KWH)	16000	32000	80000	160000	

Mechanical Parameters

Dimension	425 × 330 × 40mm	Dimensions(Units:mm)	
Weight	5.0kg(+5%)	Tang tile	Accessory tile
Glass	(-)500mm AND(+)500mm 4mm²		
Junction box	IEC Certified (IEC62790), IP67,2 Diode		
Cell Orientation	Mono PERC Cells 158.75×158.75mm		

Operating Parameters



Operational Temperature	-40°C ~ +85°C		0	
Power Output Tolerance	0~3%			
Voc and Isc Tolerance	±3%			
Maximum System Voltage	DC1000V (IEC/UL)	5		
Maximum Series Fuse Rating	20A	4		
Nominal Operating Cell Temperatureg	45±2°C			
Protection Class	Class II			
Fire Rating	IEC Class C			
Front Side Maximum				
Front Side Maximum				
Static Loading	5400Pa			
Static Loading Rear Side Maximum	5400Pa 2400Pa			
Static Loading Rear Side Maximum Static Loading				
Static Loading Rear Side Maximum Static Loading	2400Pa 25mm Hailstone			
Static Loading Rear Side Maximum Static Loading Hailstone Test	2400Pa 25mm Hailstone	Warranty		
Static Loading Rear Side Maximum Static Loading Hailstone Test Temperature Ratings (STC)	2400Pa 25mm Hailstone at the speed of 23m/s	Warranty 30 years PV performancce		



Please refer to YOEMERGY Solar product warranty for details