

Available worldwide, Ergosun Integrated Solar Roof Tiles afford homeowners the look of a traditional roof with the benefit of low light solar power generation.



PRODUCT FEATURES

AESTHETICALLY PLEASING: The tiles are available in both charcoal and terracotta. Terracotta is available via special order.

LOW LIGHT CONDITIONS: With a matte finish, the tiles reflect less light, enabling more light to be converted to power both in low light conditions and with non-optimal orientation when compared with conventional solar panels.

MINIMAL INTRUSION: Whether building from new or retrofit, the system can be designed with no need for holes through the building envelope.

WARRANTIED: The panels are warrantied to provide 80% of peak power after 25 years. This has been validated through extensive accelerated endurance testing.

WEATHER RESISTANT: Ergosun tiles have been put through a range of severe weather tests ensuring the endurance of the product.

TAX SAVINGS & REBATE ELIGIBLE: Ergosun is connected to the grid or to a storage system the same as traditional rack mounted solar systems and is therefore eligible for all of the same tax savings and rebates.

MAXIMUM EFFICIENCY: Cut cells lower the power load per cell, increasing efficiency. Furthermore, a bypass diode in every tile prevents diminished output in one panel from impacting the output of the other panels.

CERTIFIED: Product has been tested and certified to a host of international standards to ensure safe, effective operation including: UL 1703, UL 790, IEC/EN 61215, IEC/EN 61730.

SPECIFICATIONS

SUBSTRATE	Concrete or clay standard tiles
MODULE SIZE	11.73" x 13.19" 298mm x 335mm
Number of cells / module	20
Number of tiles / square metre	10
Module thickness	3mm
MAX POWER DETERMINATION	
Per solar tile	10 V @ 1.5 A
Temp	25 C 77 F
VOC (V)	12.0 V
VMP (V)	10.0 V
ISC (A)	1.55 A
IMP (A)	1.45 A
PMP (W)	15.0 W
EFF %	19.22
FF %	0.7617
Current Temp. Coefficient % (degrees C)	0.05 %
Open Circuit Volt. Temp Coefficient % (degrees C)	0.35 %
Output Temp Coefficient % (degrees C)	0.45 %
ROOFING	
Batten spacing	13.39" 340mm
PROTECTION	
Bypass diode / tile	Fused string
CONNECTIONS	
Tiles in series	2 x MC4 connectors (male & female)
System design voltage	600 VDC max
WARRANTY	10yr product warranty, 25yr 80% peak power warranty
CERTIFICATIONS	CAN/CSA C22.2 No 61730-1:11 (R2016) CAN/CSA C22.2 No 61730-2:11 (R2016) IEC/EN 61730-1:2007 + A11:2014 IEC/EN 61730-2:2007 + A1:2012 IEC/EN 61215-1:2016 UL 1703 / UL 790 Annex A: Fire tests, spread-of-flame and burning-brand tests Safety Class A in accordance with UL 790