

BIPV SLATE



BIPV SLATE RANGE OF PRODUCTS

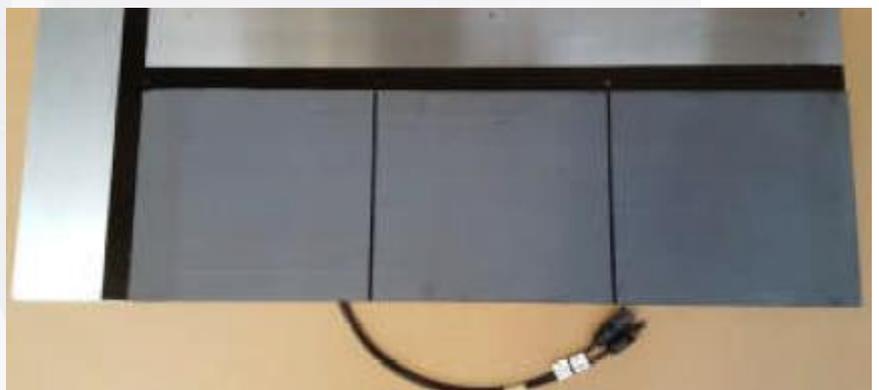
BIPV Slates are innovative roof-integrated photovoltaic slates. They are efficient, reliable, fully weatherproof and look like regular roofing slates. Unlike traditional solar panels, they blend with standard roofing slates and can create a virtually invisible solar-roof.

Advantages

BIPV Slates are ideal for any roof and customer wishing for an aesthetically pleasing solution to generating clean energy. The BIPV Slate 'traditional' is ideal for use in conservation areas and places of outstanding natural beauty, on new builds, historic buildings or renovation projects. The BIPV Slate 'contemporary' has a standard non-reflective BIPV glass appearance, and is also available in a terra-cotta coloured version.

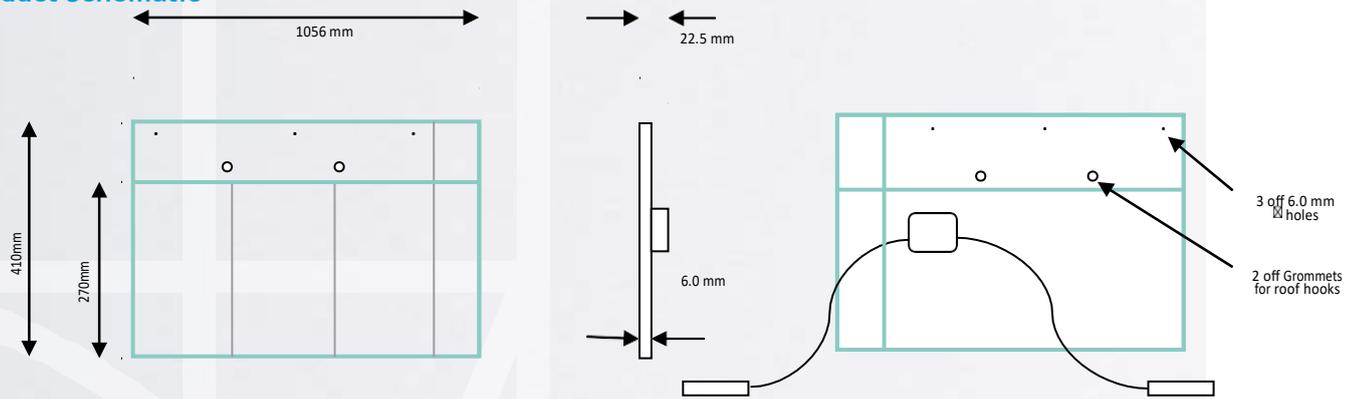
Specification

The BIPV Slate is a photovoltaic unit that visually emulates a row of 3 standard 36" x 12" (900mm x 262mm) 'Duchess' roofing slates. The 'traditional' product has a very good colour match to traditional 'blue', 'grey' and 'black' slate grades, the contemporary product provides a lapped appearance but with a more modern look. The terracotta product matches better with clay tile type roofs. BIPV slate is installed by a traditional roofing contractor and BIPV installer. Each BIPV Slate generates up to 40Wp depending on model selected.





Product Schematic



Traditional Slate



BIPV Slate

Product specifications

Dimensions (L x W x T)	Nominal - mm x 410mm x 6mm Visible – 900mm x 262mm x 6mm
Connectors	Multi-contact connectors MC4 type 1.0 m fly leads
Junction box	Low profile junction box
Slate weight (individual product)	3.5 Kg
Slate product packaging	Standard palletised carton containing 25 Carton dimensions 1000mm (L) x 800 mm (W) x 450 mm (H) plus Euro pallet Packed weight 125 Kg (including pallet)
Roof mounting method	Using stainless steel fixing screws: - 3 of M5 x 25 mm A2 pan head wood screws - 3 of Roof Hooks 2.7mm 316 St steel black powder coated - 2 x Rubber Grommets assembled to panel
	Batten gauge 270 mm
Minimum roof angle (When applied In accordance with BS5534:2014)	22° - with a functional weatherproof sub-roof system
29 BIPV Slates per KiloWatt	Roof coverage per KiloWatt 7M ² (“traditional” product)

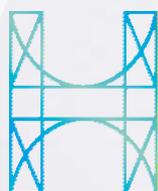
Electrical Data

BIPV Slate Product	Traditional	Contemporary
Nominal output at STC (Pmax. MPP)	35 Wp. (+/-10%)	40 Wp. (+/-10%)
Short Circuit Current - ISC	5.05 A	5.77 A
Open Circuit Voltage - VOC	7.76 V	7.76 V
Current at MPP	4.78A	5.46A
Voltage at MPP	6.2V	6.2V
Temperature coefficient of power	-0.40 % /K	-0.40 % /K
Temperature coefficient of Voltage - VOC	-0.32 % /K	-0.32 % /K
Temperature coefficient of current- ISC	0.042 %/K	0.042 %/K
Maximum permissible system voltage - VMAX	600 V	600 V

Maintenance: Self cleaning due to roof pitch. Roof access via padded ladders only - no access during earth faults.

Warranty: The BIPV Slate has a 10 year product and power performance warranty.

Power performance warranted as a minimum of 80% of initial estimated output after 10 years



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