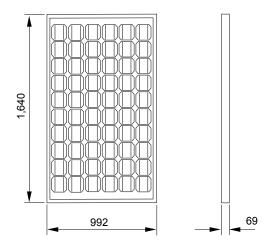
PV16 Solar Photovoltaic Panels





- Simple roof integration with clean, low-profile aesthetic for new build and retrofit
- Rapid installation times of less than 1hour/kWp easily achieved
- Compatible with the widest range of slate and tile including special fixings for Scottish slate roofs
- Fitted during the normal roofing programme, enabling clarity of responsibility and safe working practices
- Achieves highest fire rating and wind resistance without modifications to the roof





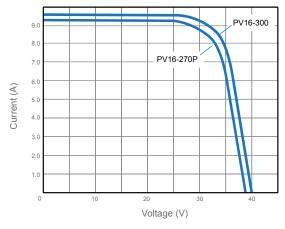
Mechanical Specification

Model		PV16		
Aperture Area	m²	1.6		
Width (across roof)	mm	992		
Height (up roof)	mm	1,640		
Thickness	mm	69		
Weight	kg	21.0		
Static roof loading (distributed)	kg/m²	12.9		
Characteristic Wind Resistance	kPa	5.32		
Ultimate Design Load 1	kPa	5.32		
Fire Rating	CEN/TS 1187	B _{ROOF} (t1, t2, t3, t4)		
	BS 476-3	AA		
Power Warranty	% rated	90%10 years, 80% 25 years		
Standards		IEC61215, 61730, TUV, MCS05 , MCS12		

Electrical Specification

Model	D)///0	0700	200	300
Model	PV16-	270P	280	300
Peak Power ²	Wp	270	280	300
Module Efficiency ³	%	17.3	17.9	19.2
Number of Cells		60	60	60
Maximum Power Voltage (Vmpp)	V	31.2	31.6	32.5
Maximum Power Current (Impp)	Α	8.7	8.9	9.2
Open Circuit Voltage (Voc)	V	37.3	38.8	40.1
Short Circuit Current (Isc)	Α	9.3	9.3	9.6
NOCT ⁴	°C	45.0	45.0	
Cell Type (-crystalline Silicon)		Poly-	Mono-	
Power Temperature Coefficient	% / °C	-0.40	-0.45	
Current Temperature Coefficient	%/°C	0.06	0.06	
Voltage Temperature Coefficient	% / °C	-0.30	-0.34	
Maximum System Voltage	VDC	1,000		
Safety Classification		Class II		

I-V Curves











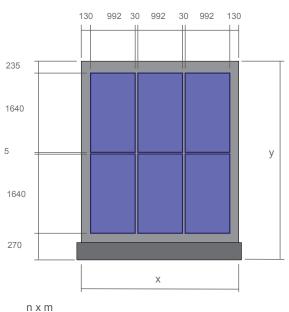
- Design resistance to ultimate loads includes a partial material safety factor of 1.0
 Subject to a manufacturing tolerance of +/- 3%.
 Based on aperture area.
 Nominal Operating Cell Temperature
 Electrical specification measured under standard test conditions: Irradiation 1 kW/m² with light spectrum AM 1.5 and a cell temperature of 25°C.

Pitched Roof Integration

Sleek, low-profile integrated solar that replaces the roof covering for an improved aesthetic and for simple roof maintenance, now at similar cost to above-roof panels. Simple, beautiful, durable.

Solar never looked so good.







$$x = 260 + (m \times 992) + ([m-1] \times 30)$$

 $y = 505 + (n \times 1640) + ([n-1] \times 5)$

