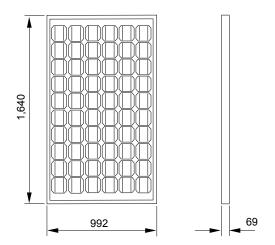
PV16 Solar Photovoltaic Panels





- 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

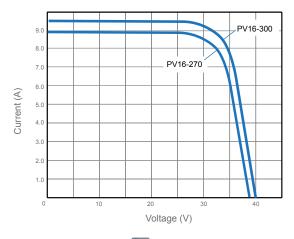
Model		PV16			
Aperture Area	m²	1.6			
Width (across roof)	mm	992			
Height (up roof)	mm	1,640			
Thickness	mm	69			
Weight	kg	21.0			
Static roof loading (distributed)	kg/m²	12.9			
Characteristic Wind Resistance	kPa	5.32			
Ultimate Design Load 1	kPa	5.32			
Fire Rating to BS 476-3		AA			
Power Warranty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

Clearline PV solar panels have been thoroughly tested, not only as energy generating equipment, but

Electrical Specification

Model	PV16-	260P	270	300
Peak Power ²	Wp	260	270	300
Module Efficiency ³	%	16.6	17.3	19.2
Number of Cells		60	60	60
Maximum Power Voltage (Vmpp)	V	30.0	31.7	32.5
Maximum Power Current (Impp)	Α	8.7	8.5	9.2
Open Circuit Voltage (V₀c)	V	37.8	38.4	40.1
Short Circuit Current (Isc)	Α	9.0	9.0	9.6
NOCT ⁴	°C	43.4	45.0	
Cell Type (-crystalline Silicon)		Poly-	Mono-	
Power Temperature Coefficient	% / °C	-0.403	-0.450	
Current Temperature Coefficient	% / °C	0.054	0.060	
Voltage Temperature Coefficient	% / °C	-0.296	-0.340	
Maximum System Voltage	VDC	1,000		
Safety Classification		Class II		

I-V Curves













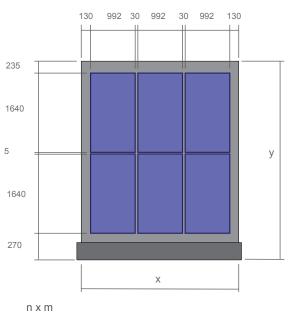
Design resistance to ultimate loads includes a partial material safety factor of 1.0
Subject to a manufacturing tolerance of +0 /+3%.
Based on aperture area.
Nominal Operating Cell Temperature
Electrical specification measured under standard test conditions: Irradiation 1 kW/m² with light spectrum AM 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.







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

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

