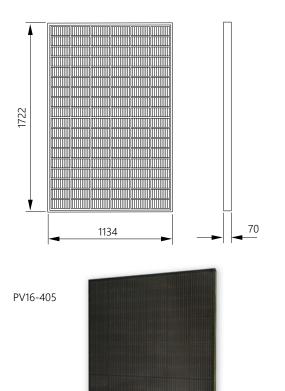
M10 Solar Photovoltaic Panels



- Simple roof integration with clean, low-profile aesthetic for new build and retrofit
- Rapid installation times of less than 45 min/kWp easily
- including special fixings for different batten thickness
- 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

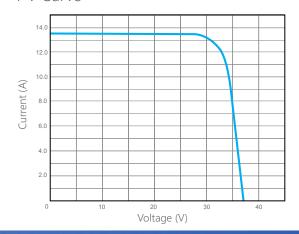
		Clearline PV16-XXX*			
Aperture Area	m²	1.885			
Width	mm	1,134			
Length	mm	1,722			
Thickness	mm	70.2			
Weight	kg	25.0			
Static roof loading (distributed)	kg/m²	12.8			
Characteristic Wind Resistance	kPa	4.24			
Ultimate Design Load ¹	kPa	4.24			
Positive/Negative Design Load (IEC 61215) 1	kPa	5.40			
Fire Classification (IEC 61730)		Class C			
Power Warranty	% rated	90%10 years, 80% 25 years			
Product Warranty		20 years			
Standards		IEC61215, 61730, TUV, MCS05 , MCS12			

Electrical Specification

*where XXX refers to the power of the PV module

Model		Clearline PV16-XXX*						
Peak Power ²	Wp	400	405	410	415			
Module Efficiency ³	%	21.2	21.5	21.8	22.0			
Number of Cells		54x2	54x2	54x2	54x2			
Maximum Power Voltage (V _{mpp})	V	30.85	31.02	31.18	31.35			
Maximum Power Current (Impp)	А	12.97	13.06	13.15	13.24			
Open Circuit Voltage (Voc)	V	36.87	37.05	37.23	37.42			
Short Circuit Current (Isc)	А	13.52	13.62	13.72	13.8 2			
NOCT ⁴	°C	45.0						
Cell Type		Monocrystalline Silicon						
Power Temperature Coefficient	%/°C	-0.35						
Current Temperature Coefficient	%/°C	0.05						
Voltage Temperature Coefficient	%/°C	-0.28						
Maximum System Voltage	VDC	1,000						
Maximum Fuse Rating	А	25						
Safety Classification		Class II						
Electrical Connectors		Stäubli MC4 PV-KST4/6X-UR, PV-KBT4/6X-UR						

I-V Curve







- Design resistance to ultimate loads includes a partial material safety factor of 1.0, Design load to IEC61215 has a safety factor of 1.5 Subject to a manufacturing and measurement tolerance of +/- 5%. Binning tolerance +/-5W. Pmax tolerance +/-3% to IEC61215

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M10 Solar Photovoltaic Panels

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.



