Roofit 3x8/110W/RR33/B/DS

Building integrated photovoltaic module



High mechanical load resistance because of metal back sheet



Snail trail free structure



Strictly positive 0...+5W power tolerance



Superior linear power warranty.
Maximum 0.5 % degradation per year.



Made in EU



Outstanding low light performance



Roofing material and photovoltaic module 2in1



Suitable for historic buildings



Ideal photovoltaic solution for sloped roofs



Impact resistance

Patent pending technology



Maximum Series Fuse Rating 15 A

Mechanical Specifications

Wicefiamical Specifications						
Cells	3 x 8 mono PERC	Minimum roof slope	10 degrees			
Junction box	decentralized junction box three bypass diodes protection class IP67 MC4 connections	Maximum distance between roof rafters	1200 mm			
		Purlins	32 mm x 100 mm max. spacing			
Effective roof coverage	1340 mm x 545 mm		350 mm			
Mounting method	double seam technology	Minimum ventilation below	50 mm			
Weight	11.0 kg	Working Conditions				
Front glass	3.2 mm temperad low-iron glass with anti-reflective technology					
		Maximum System Voltage	1000 VDC			
Back sheet	0.5 mm metal sheet with highly durable PUR coating	Operating Temperature	-40 °C +85 °C			

d = 35 mm hailstone 46 m/s = 165.5 km/h

Electrical Characteristics

Standard Test Conditions (irradiance 1000 W/m², cell temperature 25 °C, spectrum AM1.5)

Nominal Power	P _{mpp} (W)	110	
Power Tolerance	0+5 W		
MPP Voltage	V _{mpp} (V)	13.4	
MPP Current	I _{mpp} (A)	8.20	
Open Circuit Voltage	V _{oc} (V)	17.1	
Short Circuit Current	I _{sc} (A)	8.51	

Normal Operating Conditions (irradiance 800 W/m², air temperature 20 °C, wind 1 m/s, spectrum AM1.5)

Power	P _{mpp} (W)	88.0
MPP Voltage	V _{mpp} (V)	13.4
MPP Current	I _{mpp} (A)	6.56
Open Circuit Voltage	V _{oc} (V)	17.0
Short Circuit Current	I _{sc} (A)	6.83

Power Measurement Tolerances ±3 % Other Parameter Tolerances ±5 %

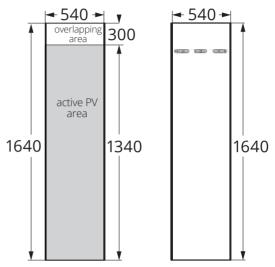
Thermal Characteristics

Normal Operating Cell Temperature	NOCT	45 °C
Temperature Coefficient of $\mathbf{P}_{\mathrm{mpp}}$	γ	-0.42 %/K
Temperature Coefficient of $V_{\rm oc}$	β	-0.32 %/K
Temperature Coefficient of I _{sc}	α	0.05 %/K

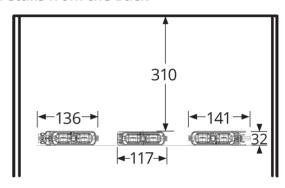
- Roofit.solar modules are tested according to **CEN TS 1187** for fire safety and comply with **EN 13501-5:2016** \mathbf{B}_{roof} (t2) classification criteria when installed.
- Roofit.solar modules completed and passed Electrical Shock Hazard Tests by Kiwa Inspecta according to standard EVS-EN IEC 61730-2:2018.
- Metal parts of Roofit.solar modules are **CE** marked according to standard **EN 14782:2006.**

Engineering Drawings (units mm)

View from the Front View from the Back



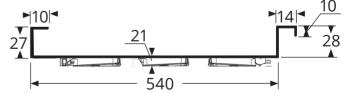
Details from the Back



View from the Top Edge



Standing Seam Joint



^{*}For roofs with the slope less than 10 degrees, please contact with Roofit.solar