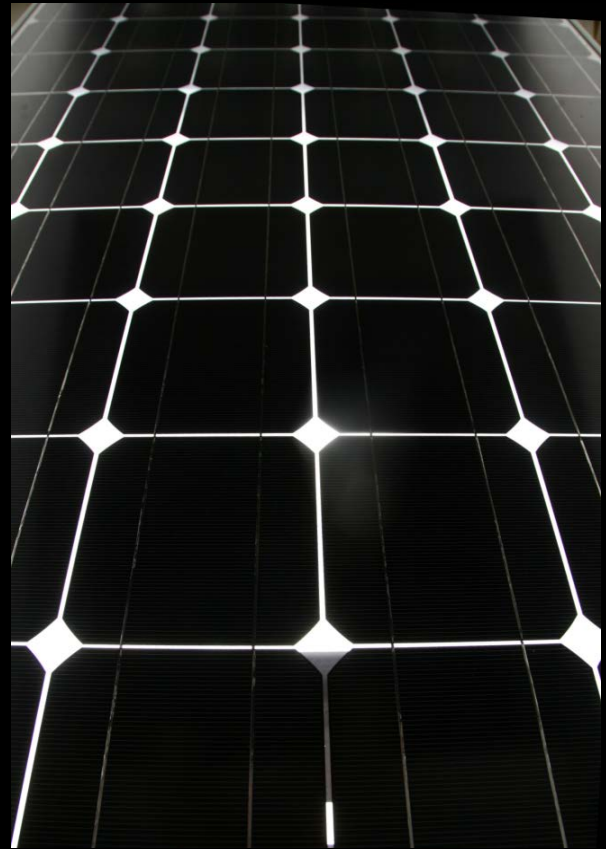
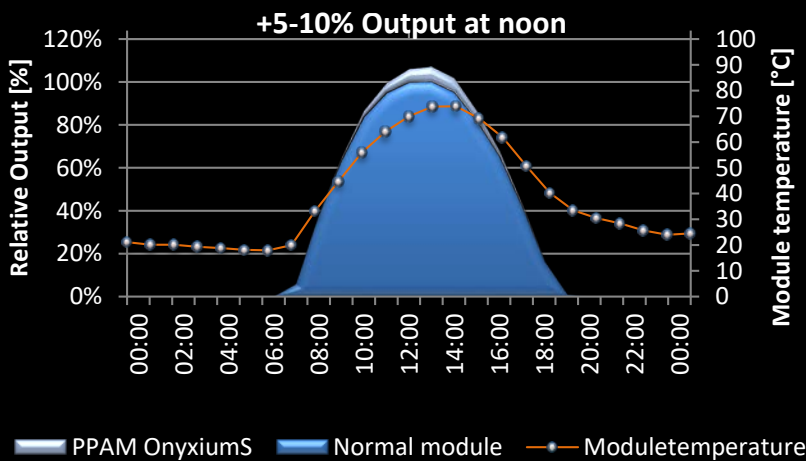


PPAM Onyxium 330W

-High yields. Low installation cost

The best of two worlds

Swedish engineering is a quality trademark you can trust. When combined with high quality solar cells from Taiwan, in the Onyxium-S, high yields are reached with good thermal properties at low installation costs. Onyxium-S is produced using only high quality raw materials from leading suppliers. Onyxium-S is ideal for residential buildings, on facades, rooftops and large scale solar power systems.



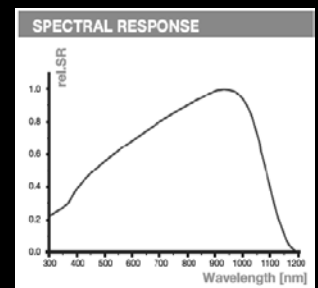
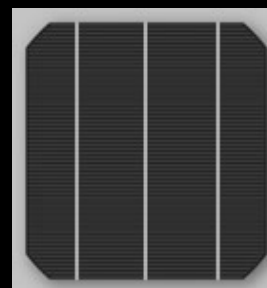
Flexibility

We strive to meet the needs of our customers by producing modules with any dimensional requirements. White, black or transparent backsheet. Silver or black frame or frameless. Please contact us for more information and ask for a quotation for a product especially designed for you

Quality & Warranty

The quality is assured by several quality control check points and tested prior to delivery. A final test is conducted in a solar tester, where the modules are tested under Standard Test Conditions (STC 1000W/m², AM 1.5, 25°C). Every modules test data is stored in our database with a unique serial number.

PPAM.se offer a product warranty of 10 years and a 25 year performance warranty for 80 % power output on all standard products. We are certified in accordance with:
 EN IEC 61215 (design qualification and type approval)
 EN IEC 61730 (safety qualification)
 SS-EN ISO 9001:2008 (Quality Management System)

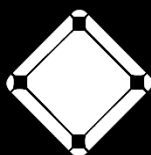


PPAM uses high efficiency solar cells with substantially higher spectral response at blue wavelength and thin 3-bus-bar for best thermal properties.

PID-FREE UL-CCIC test report: 12CA63536



ID: 12-PPV-000006211/01-M02-TIC

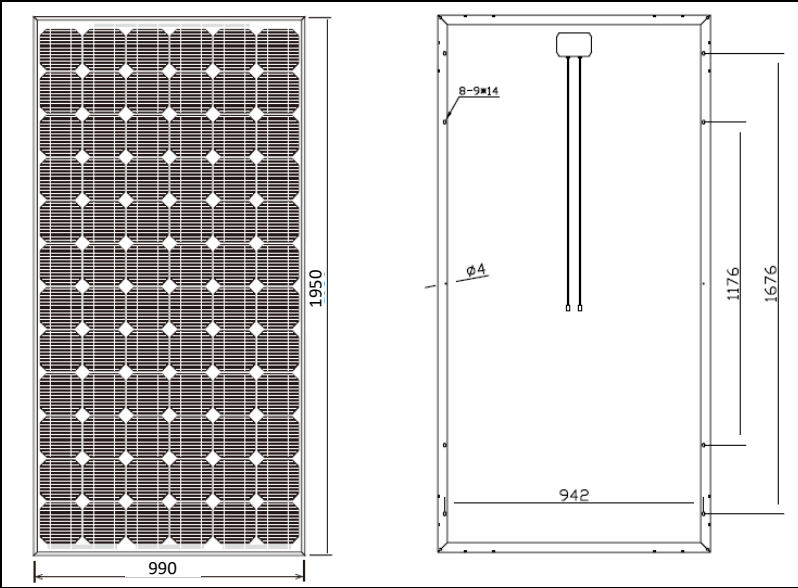


PPAM SOLKRAFT

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PPAM Onyxium is installed in Swedens first renovated plusenergy house. See more at: www.ppam.se



Physical properties

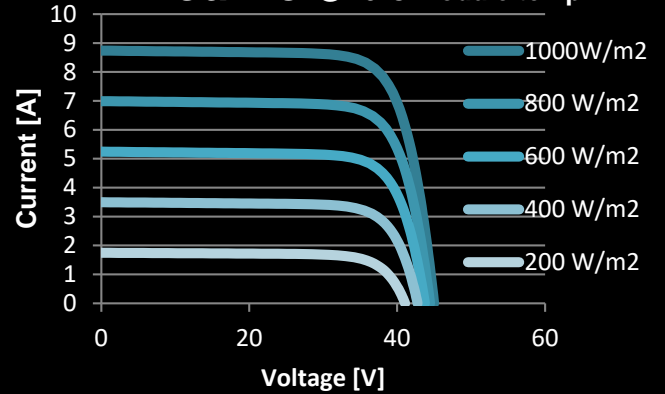
Cell Type	Monocrystalline
Cell dimensions	156x156mm
Cells per module	72
Frame	Anodized Aluminum
Maximum System Voltage	1000 V
Module Weight	22 kg
Module Dimensions	1950 x 990x 40 mm
Tested temp. conditions	-40°C to +85°C
Max load	550 kg/m ² front only (snow) 245 kg/m ² back & front (wind)

ppam.se Sweden AB reserves the right to make specification changes without prior notice. Please contact your nearest supplier/distributor or visit our website to obtain the latest specification sheet.

Electric properties.

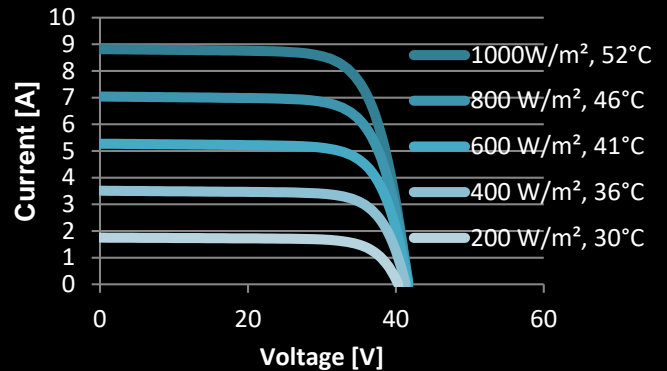
Model	PPAM-Onyxium
Max. Power [P _{max}]	330 W _p
Open circuit Voltage [V _{oc}]	44,5 V
Max. Pow. Voltage [V _{mpp}]	36,7 V
Short Circ.Current [I _{sc}]	9,45 A
Max. Pow. Current [I _{mpp}]	8,97 A
Power Tolerance	+3/-0 %
Module Efficiency	17,2%

IV-curve @ 25°C module temp.



IV-curve

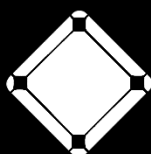
@ amb, temp 25°C, U-value 29W/m²K



Thermal properties

NOCT	46°C
Voltage Temp.Coefficient	-0.24%/K
Current Temp. Coefficient	+0.034 %/K
Power Temp.Coefficient	-0.42 %/K

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