DIMENSIONS AND PHYSICAL DATA

Dimensions (L x H x D)	991 x 1650 x 40 mm
Mass	27 kg
Cell type	Polycristalline
Cell dimension	156 x 156 mm
Number of cells	60
Cell layout	6 x 10
Glass	Extraclear tempered prismatic, high transmission, thickness 32 mm
Encapsulant	EVA - Ethylene-vinyl acetate, UV resistant
Frame	Anodized aluminium
Junction box	TUV certified IP65
By-pass diodes	n. 3 / 15A
Cables	MC4, 2x1000 mm, Ø 4 mm2

USE CONDITIONS

Hail resistance	Ø 28 mm @ 86 km/h
Wind resistance	3800 Pa
Max surface load	5400 N/m2 @ 8000 Pa

THERMAL DATA

Zero-loss collector efficiency	η_0 0,516
Collector efficiency coefficent	b_u 0,045 s/m
Heat loss coefficient	b_1 11,044 W/m² °K
Wind dependence of the heat loss coefficient	b_2 1,124 Ws/m³ °K
Incidence angle modifier at 50°	kθ (50°) 94%
Peak power	846 W
Maximum temperature allowed	80 °C
Maximum pressure	3 bar
Fluid volume	0,81
Gross area	1,66 m²
Aperture area	1,51 m²
Absorber area	1,46 m²
Connection size	Ø 10 x 1 mm x mm

Data are referred to the absorber area.

DHW PRODUCTION*

Suggested flow rate	1,00 l/min
Flow rate losses	160 mbar
Maximum panels in parallel	10 pz

CONNECTED TO A HEAT PUMP*

Suggested flow rate	1,67 l/min
Flow rate losses	294 mbar
Maximum panels in parallel	6 pz

* Pls. carefully read the Design Guidelines and the Installation Manual.

ELECTRICAL DATA HNRG 250

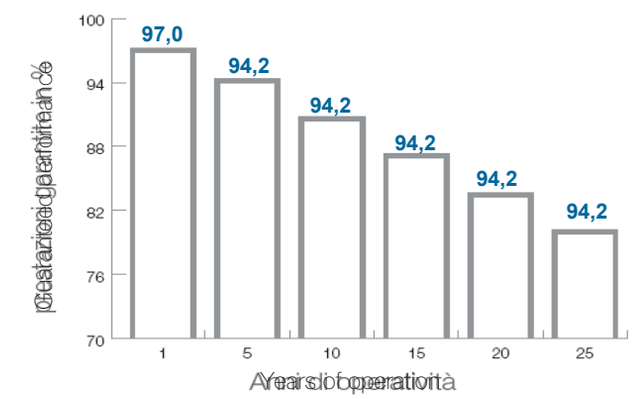
Peak power	250 W
Tolerance	0/+5 W
MPP voltage	30,7 V
MPP current	8,18 A
Open circuit voltage	37,8 V
Short circuit current	8,41 A
Maximum system voltage	1000 VDC
Efficiency	15,37 %
Reverse current	14 A
Fire resistance class 1	

TEMPERATURE COEFFICIENTS

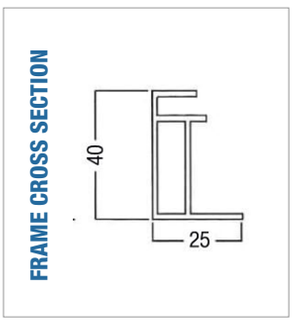
Voltage temp. coefficient V_{OC}	- 0,30 %/°K
Current temp. coefficient I_{SC}	+ 0,04 %/°K
Power temp. coefficient P_M	- 0,42 %/°K
NOCT	45°C ± 2°C
Working temperture range	- 40° C÷ + 85° C

Standard test conditions: irradiance 1000 W/m2; cell temperature 25°C; A.M. 1,5; NOCT @ 800 W/m2.
Technical data can be modfied by the producer.

LINEAR POWER WARRANTY



FRAME CROSS SECTION



PANEL'S DIMENSIONS