



NORM 250

Mono Power

Superior Quality

A modern German production line with fully automated stringing and lamination area, unceasingly monitoring of every single part of the process and the world leading companies as our material suppliers gives us the confidence to name our products as World-class.

Norm Energy only offers the highest quality and highest efficiency modules in the market. As Norm Energy we are conscious of perfection comes with continuous seek of excellence. We are seeing our customers as our life time business partners.

25 Years linear performance guarantee. Norm Energy guarantees a maximum performance decrease of 0,8% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry. In addition, Norm Energy is offering a product warranty, which is for 10 years.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic inspection
- Power Controlled



Solar Module NORM 250 Mono Power

Manufacturer	Length (x)	Width (y)	Height (z)	Weight	Junction box	Plug connector	Cable (l)	Structure of glass surface
Norm	1650	990	40.9	18.3 kg	Gensler	MC4 Comp.	900	Sandy
Crystalline solar module								
Performance classes	GSE 235 - 255							
Performance sorting	-0 / + 4.99 Wp							
Structure	Glass-foil laminate <ul style="list-style-type: none"> • 3,2 mm glass • Anodized aluminum frame • Junction box (IP 68) with 3 bypass diodes • Weather resistant back sheet (white) • Tectosile as encapsulation foil • Cable 12 AWG (4mm²) 							
Cells	60x monocrystalline Bosch solar cells in 156 mm x 156 mm format							
Mechanical load	5400 Pa superimposed load, 2400 Pa suction load, in accordance with IEC 61215							

Electrical characteristics for STC*:

Designation	P _{mpp} (Wp)	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)	Reversecurrent load capacity (A)
Norm 250	250	30.20	8.30	38.00	8.80	17

Electrical characteristics for NOCT*:

Designation	P _{mpp} (Wp)	V _{mpp} (V)	V _{oc} (V)	I _{sc} (A)
Norm 250	181	27.16	34.18	7.00

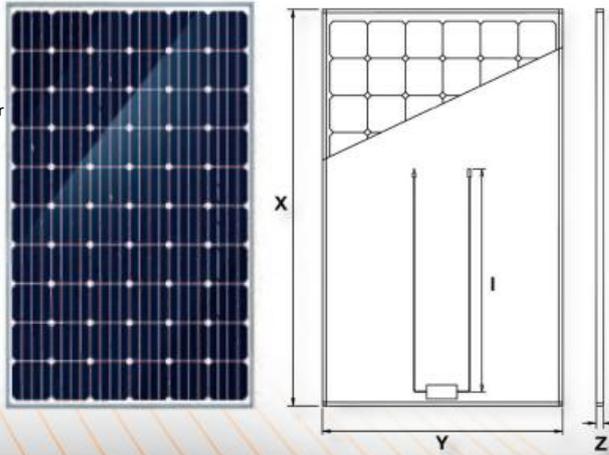
NOCT: Normal Operation Temperature 45.3 °C; Irradiation level 800 W/m²; AM 1.5, temperature 20 °C, wind speed 1 m/s, electrical open circuit operation

Dimensions**:

*Electrical parameters are typical mean values from historical production data of Norm Energy assumes no liability of this data for future production batches.

**Drawings are not to scale. For detailed dimensions and tolerances, see above.

The assembly and operating instruction must be followed. Norm Energy accepts no liability for damage to equipment operated in conjunction with solar modules from NormEnergy without regard to the technical modifications in the course of product development and mistakes/errors.



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Notes on assembly

- See installation and operating manual
- Horizontal and vertical assembly possible
- System voltage max. 1000 V

Weak light performance:

Intensity (W/mm ²)	V _{mpp} (V)	I _{mpp} (A)
800	0.0	-20
600	0.0	-40
400	-0.4	-60
200	-3.2	-80
100	-6.0	-90

The electrical data applies for 25 °C and AM 1.5.

Thermal characteristics:

Operating Temperature range	-40 to 85 °C
Temperature coefficient P _{mpp}	-0.46 %/K
Temperature coefficient V _{oc}	-0.32 %/K
Temperature coefficient I _{sc}	0.032 %/K



MADE IN TURKEY

صنع في تركيا

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SİSTEMLERİ LIMITED



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