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Solar Panel Guide

Specification Data Sheet

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GÜNEŞ ENERJİ PANELLERİ PV MODULES

POLYCRYSTALLINE

25
YIL %80 VERİM
GARANTİSİ
80% PERFORMANCE
GUARANTEE FOR
25 YEARS

10
YIL %90 VERİM
GARANTİSİ
90% PERFORMANCE
GUARANTEE FOR
10 YEARS

10
YIL MALZEME VE
İŞÇİLİK GARANTİSİ
MATERIAL &
WORKMANSHIP
GUARANTEE FOR
10 YEARS

270 W
EN YÜKSEK
GÜÇ ÇIKIŞI
270 W MAX.
POWER OUTPUT



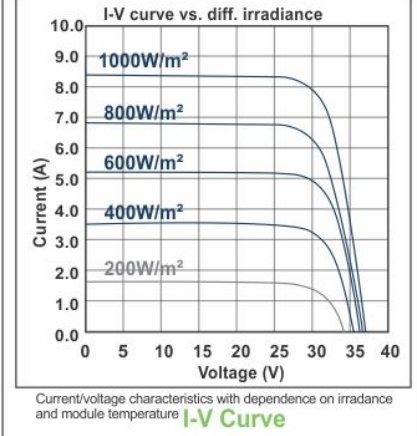
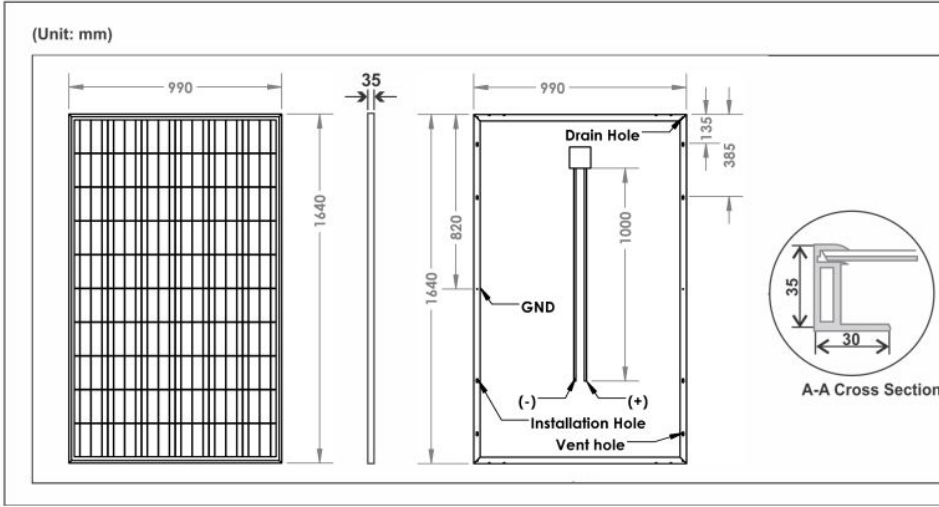
Türkey

Discover
the potential



International
Organization for
Standardization





Electrical Data at STC

- Below data are effective as the measurement at Standard Test Conditions (STC)
- STC : Radiation strenght 1000 W/m², spectral distribution AM 1.5, temperature 25± 2°C, in accordance with EN 60904-3

Typ. Nominal Power P_N	G-245 Wp	G-250 Wp	G-255 Wp	G-260 Wp	G-265 Wp
Typ. Nominal Voltage V_{mp} (V)	30.65	30.95	30.40	30.50	30.60
Typ. Nominal Current I_{mp} (A)	8.02	8.12	8.39	8.53	8.66
Typ. Open Circuit Voltage V_{oc} (V)	37.10	37.37	37.50	37.60	37.70
Typ. Short Circuit Current I_{sc} (A)	8.54	8.63	8.86	8.95	9.03
Module Efficiency	%15.08	%15.4	%15.71	%16.01	%16.32

Electrical Data at NOCT

- The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of 10%, with the exception of P_N . The classifications is performed according to P_N .

Typ. Nominal Power P_N	182 Wp	186 Wp	189 Wp	193 Wp	196 Wp
Typ. Nominal Voltage V_{mp} (V)	28.74	29.02	28.51	28.6	28.69
Typ. Nominal Current I_{mp} (A)	6.34	6.42	6.63	6.74	6.84
Typ. Open Circuit Voltage V_{oc} (V)	34.82	35.08	35.20	35.29	35.39
Typ. Short Circuit Current I_{sc} (A)	6.75	6.82	7.00	7.07	7.13

Mechanical Characteristics

Dimensions (LxWxH)	1640x990 x 35 mm
Weight	18 kg / 20 kg
Front Glass	High transparent solar glass (tempered). 3.2 mm/4.0 mm
Cell	60 Polycrystalline solar cells, 156mmx156mm
Cell Encapsulation	EVA
Black Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	Junction box with 3 bypass diodes
Cables	1x4 mm ² , length: each 1.0m
Connector Type	MC4 compatible

Operating Conditions

Mechanical Load	5400 Pa (Certified by TUV Inter Cert Saar)
Maximum System Voltage	IEC:DC1000 V/UL:DC 600 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85°C

Temperature Characteristics

Nominal Operating Cell Temperature	45°C±3°C
Temperature Coefficient of I_{sc}	0.05 % / °C
Temperature Coefficient of V_{oc}	-0.32 % / °C
Temperature Coefficient of P_{max}	-0.43 % / °C

- The above values are effective for an irradiation of 1000 W/m², AM 1.5, and a cell temperature of 25°C according to STC 20°C, wind speed 1m/s
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EN 61730

IEC 61215

IEC 61701

ISO 9001

ISO 14001

ISO 18001

