



300 - 340 Wp 72 POLYCRYSTALLINE CELLS

AEG solar modules combine the most advanced technology with high reliability in manufacture to offer you a product meant for high achievements.



SIMPLY MORE POWER

The AEG solar module AS-P727B is designed to ensure high yields to meet the needs of larger and power-intensive installations.



FULL BLACK, PREMIUM LOOK

The careful selection of components (cells, backsheet and frames) ensures a premium product look and provides extra aesthetical value.

COMPREHENSIVELY CERTIFIED

AEG solar modules and production facilities are compliant with the the latest standards to guarantee safety and reliability. Production facilities are certified according to ISO 9001, ISO 14001 and OHSAS 18001. AEG solar products are certified among others by:



YOUR ADVANTAGE AT A GLANCE

Premium solar panel with quality components
High efficiency - up to 340 Wp
Product certified IEC 61215, IEC 61730
10 years Product warranty
25 years linear Power warranty

More on: www.aeg-industrialsolar.de



ELECTRICAL CHARACTERISTICS AT STC¹

Nominal Power (P _{max})	[Wp]	300	305	310	315	320	325	330	335	340
Tolerance on Nominal Power P _{max} ²	[Wp]	-0 / +5	-0 / +5	-0 / +5	-0 / +5	-0 / +5	-0 / +5	-0 / +5	-0 / +5	-0 / +5
Maximum Power Voltage (V _{mp})	[V]	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5
Maximum Power Current (I _{mp})	[A]	8.18	8.29	8.41	8.52	8.63	8.74	8.85	8.96	9.07
Open Circuit Voltage (V _{oc})	[V]	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1
Short Circuit Current (I _{sc})	[A]	8.68	8.76	8.85	8.93	9.04	9.15	9.26	9.38	9.50
Module Efficiency (η _m)		15.46%	15.72%	15.98%	16.23%	16.49%	16.75%	17.01%	17.26%	17.52%
Maximum System Voltage	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Series Fuse Maximum Rating	[A]	15	15	15	15	15	15	15	15	15

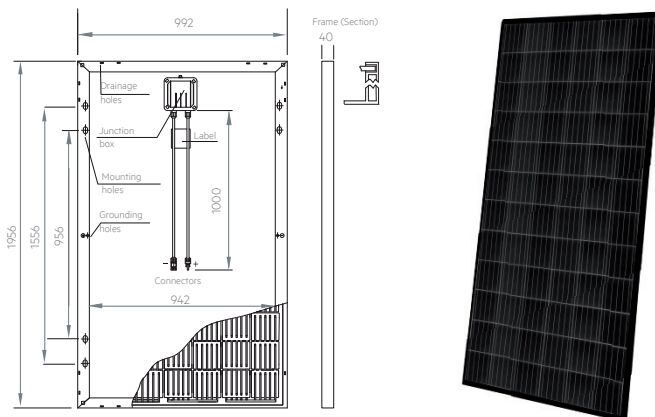
ELECTRICAL CHARACTERISTICS NOCT³

Product type: AS-P727B-xxx (xxx=300-340)		300	305	310	315	320	325	330	335	340
Maximum Power (P _{max})	[W]	221	224	228	232	236	239	243	247	251
Maximum Power Voltage (V _{mp})	[V]	33.4	33.5	33.6	33.7	33.8	33.9	34.0	34.1	34.2
Maximum Power Current (I _{mp})	[A]	6.62	6.69	6.79	6.89	6.98	7.05	7.15	7.25	7.34
Open Circuit Voltage (V _{oc})	[V]	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5
Short Circuit Current (I _{sc})	[A]	7.03	7.10	7.17	7.23	7.32	7.41	7.50	7.60	7.70

MECHANICAL CHARACTERISTICS

Solar cells	72 (6 x 12) polycrystalline silicon, 156 x 156 mm (6") cells
Front glass	3.2 mm (1.25") high-transparency AR coating glass
Backsheet	Black backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminum alloy, black
Junction box	IP67 rated, 3 bypass diodes
Cables	UV resistant cable 1000 mm (39.37"), sec.4.0 mm ²
Connectors	MC4 compatible connectors
Dimensions	1956 mm x 992 mm x 40 mm (77.01" x 39.06" x 1.57")
Weight	22.5 kg (49.6 lbs)
Maximum load	Wind: 2400 Pa / Snow: 5400 Pa

TECHNICAL DRAWINGS



Module dimensions in the technical picture are expressed in mm with tolerance ±2 mm (+0.079")

1 - Standard Test Conditions (STC) Irradiance 1000 W/m², Air Mass AM = 1.5, Cell Temperature 25°C, Power measurement uncertainty within ± 3%.

2 - AEG photovoltaic modules are classified according to a principle of positive power tolerance: the Power Output measured at STC of the delivered modules exceeds the assigned Nameplate Nominal Power at STC within a power tolerance range between -0 Wp and +5 Wp.

3 - Normal Operating Cell Temperature (NOCT) Irradiance 800 W/m², Wind Speed 1m/s, Cell Temperature 25°C, Ambient Temperature 20°C, Power measurement uncertainty within ± 3%.

4 - No less than 97% of the minimum "Peak Power at STC" in the first year; power output decline no more than 0.7% per year thereafter.

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TEMPERATURE CHARACTERISTICS

NOCT	45°C ± 2°C
P _{max} Temp. Coefficient (γ)	-0.41 %/°C
V _{oc} Temp. Coefficient (β)	-0.31 %/°C
I _{sc} Temp. Coefficient (α)	0.05 %/°C
Operating temperature	-40°C to + 85°C

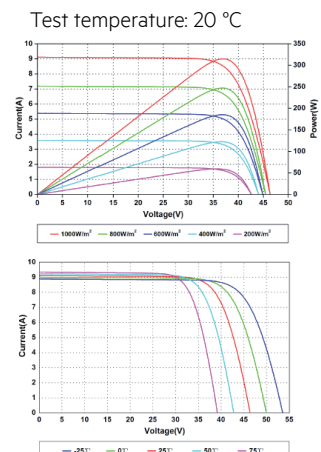
PACKING CONFIGURATION

Packing configuration	26 pcs / pallet
Loading capacity	572 pcs / 40 ft HC

WARRANTIES

Product warranty	10 years
Performance warranty	25 years, linear ⁴

I-V CURVES / IRRADIANCES



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