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EnergyPal

Solar Panel Guide Specification Data Sheet

Enhance Photovoltaics POWER 60 - P Black Edition EP-255 P60-P

Also available on the web at
EnergyPal.com/enhance-photovoltaics-solar-panels/ep-255-p60-p



POLYCRYSTALLINE MODULE

POWER 60 - P Black Edition



Made in Japan

Enhance Photovoltaic Modules surpass all international recognised quality standards and are produced by one of the world's leading fully vertical integrated photovoltaic module producers on the world's most advanced European produced fully automated robotic production lines, this process ensures exceptionally high quality, reliability and performance, even in low light conditions.



High Cell Efficiency

Cell efficiency up to 17.79% achieved through advanced cell technology and manufacturing capabilities



Extended wind & snow load tests

Module certified to withstand extreme wind and snow loads (5400 Pascal)



Positive tolerance

Positive tolerance of up to 3% delivers higher outputs



PV-Cycle

Green Handling over PV-Cycle



Excellent weak light performance

Excellent performance under low light conditions



Anti-PID

Potential Induced Degradation Test Certified according to IEC 62804



Corrosive Resistant

Robust design & materials ensures reliability whilst operating under the most extreme conditions such as marine or farming environments



Warranty / PowerGuard

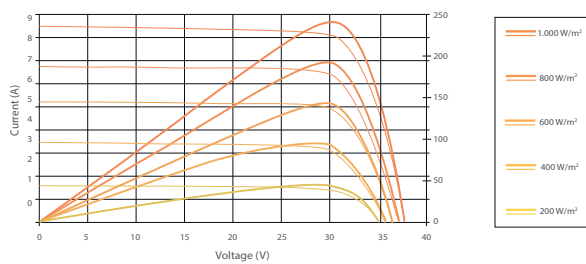
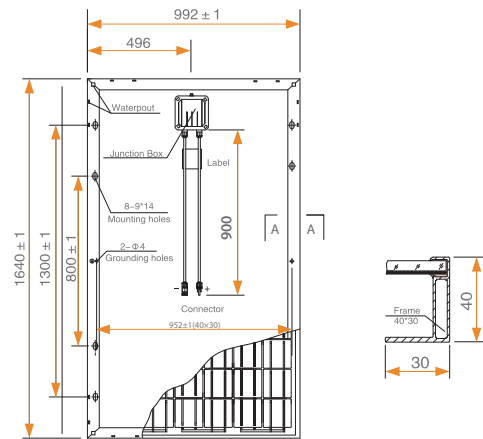
By choosing highly efficient Enhance Photovoltaic Modules you are taking no risks, a fully bankable module with a market leading 10 year insurance backed product warranty with a 25 year linear performance warranty ensures total peace of mind for generations to come despite working under extreme climatic conditions.

Guaranteed 25 year linear performance. Min 97% after the first year, afterwards Max 0.7% reduction p.a up to 25 years.



Electrical Data		EP-235 P60-P	EP-240 P60-P	EP-245 P60-P	EP-250 P60-P	EP-255 P60-P
Nominal Power Watt P_{max}	W_p	235	240	245	250	255
Power Output Tolerance P_{max}	%	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3
Maximum Power Voltage V_{mpp}	V	29.55	29.75	29.95	30.15	30.33
Maximum Power Current I_{mpp}	A	7.95	8.07	8.81	8.29	8.41
Open Circuit Voltage V_{oc}	V	37.38	37.55	37.72	37.89	38.08
Short Circuit Current I_{sc}	A	8.39	8.47	8.53	8.61	8.65
Module Efficiency η_m	%	14.44	14.75	15.06	15.37	15.67
Cell Efficiency η_c	%	16.26	16.64	17.02	17.44	17.79

Mechanical Data	
Solar Cells	Poly 156 x 156mm
Cell Orientation	60 (6 x 10)
Module Dimensions	1640 x 992 x 40 mm
Weight	19.5kg
Glass	High transparency, low Iron, AR-coating, tempered glass 3.2 mm
Frame	Anodized Aluminium alloy. Frame and backside in alu
Junction Box	≥IP 65
Cables/Connector	4 mm ² , 900 mm, MC4-compatible
Number of Diodes	3/6
Modules per Box	26 pcs. (40mm)
Modules per 40' Container	728 pcs. (40mm)



Temperature Ratings & Working Conditions	
Nominal Operating Cell Temperature	45 °C (±2 °C)
Temperature Coefficient of P_{mpp}	-0.42 %/K
Temperature Coefficient of V_{oc}	-0.33 %/K
Temperature Coefficient of I_{sc}	0.06 %/K
Maximum System Voltage	1000 V DC (TÜV)
Operating Temperature	From -40 to +85 °C
Maximum Series Fuse	15A
Maximum Load (Snow/Wind)	5400 Pa / 2400 Pa

¹ Measurement Tolerance STC: ± 3% (P_{max}), ± 10% (V_{max} , I_{mpp} , V_{oc} , I_{sc}), Values at Standard Test Conditions STC (Air Mass AM 1,5, Irradiance 1000 W/m², Cell Temperature 25 °C)
 Remark: Please read safety and installation instructions before using the product | Subject to change without prior notice © ENHANCE PHOTOVOLTAICS 2014

