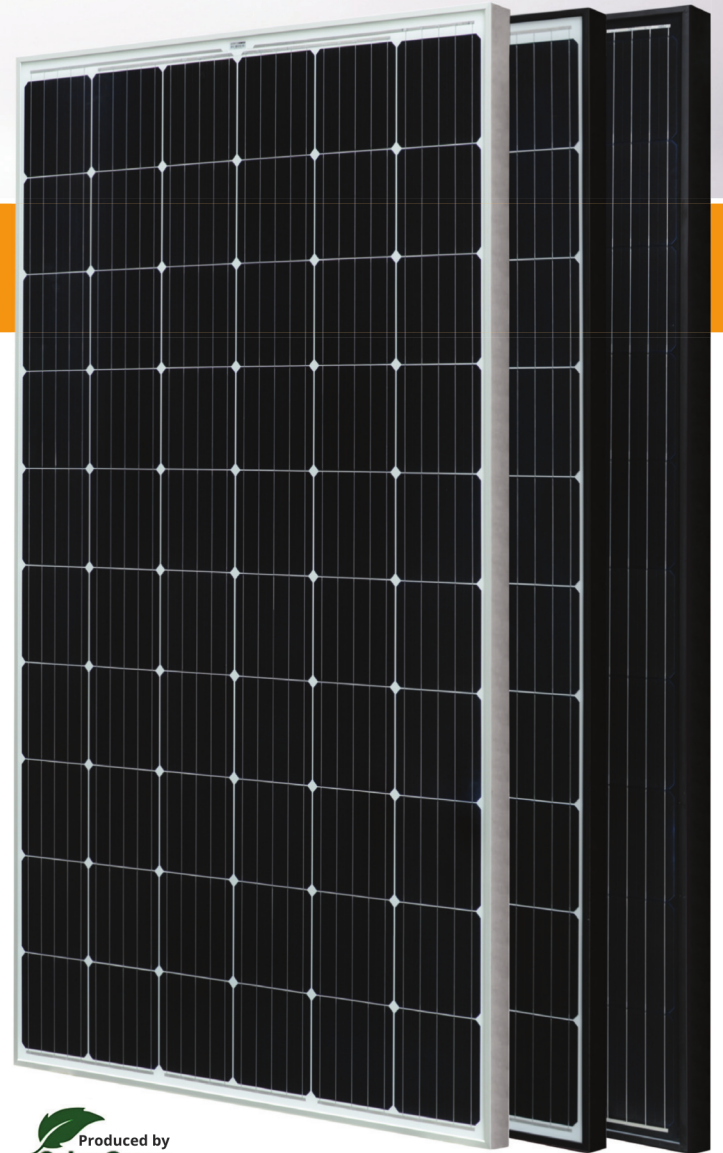


MONOCRYSTALLINE SOLAR MODULE SPE 310 / 315



Experience and Reliability

More than 200 years experience of Schmid & Pekintas Groups

Production With Full Automation

All processes that require high sensitivity are done with robotic systems in Schmid Pekintas high-tech production line. Full automation in Schmid Pekintas line enables production of high quality Photovoltaic (PV) modules as superior in performance, long life and durability. Schmid Pekintas offers high quality products to customers according to the international standards by using German Technology.

Positive Power Tolerance

Power output of Schmid Pekintas solar modules have always positive (+) tolerance. During production, all solar modules are automatically classified according to the power output values.

Excellent Resistance To Harsh Environment

Schmid Pekintas solar modules have high resistance to salt water and ammonia. Therefore, they can safely be used in corrosive environments such as animal farms and marine sites.

World Class Quality

High Product Quality | High Efficiency | Anti-PID technology | Positive Power Tolerance
0 / +5 Wp

Robust and Aesthetic Design | High Long-Term Performance | 25 years Linear Performance Guarantee
10 years Product Warranty

MAX LOAD 5400Pa | 5400Pa Snow Load, 2400Pa Wind Load Resistance | 1000V / 1500V Maximum System Voltage



Electrical Characteristics (STC)

Model		SPE 310		SPE 315	
Maximum Power	P _{max}	310	Wp	315	Wp
Maximum Power Voltage	V _{mpp}	33.18	V	33.46	V
Maximum Power Current	I _{mpp}	9.35	A	9.43	A
Open Circuit Voltage	V _{oc}	40.08	V	40.23	V
Short Circuit Current	I _{sc}	9.90	A	10.00	A
Module Efficiency	η _m	18.77	%	19.07	%
Positive Power Tolerance		~ +5W			

Standard Test Conditions (STC) : Irradiance 1000 W/m², AM 1.5, Cell Temperature 25°C
Measurement Tolerance ± 3%.

Electrical Characteristics (NOCT)

Model		SPE 310		SPE 315	
Maximum Power	P _{max}	230	Wp	233	Wp
Maximum Power Voltage	V _{mpp}	30.29	V	30.34	V
Maximum Power Current	I _{mpp}	7.62	A	7.68	A
Open Circuit Voltage	V _{oc}	36.29	V	36.37	V
Short Circuit Current	I _{sc}	8.08	A	8.15	A

Nominal Operating Cell Temperature (NOCT) : Irradiance 800 W/m², AM 1.5, Wind Speed 1m/s.

System Design

Maximum System Voltage	1000V DC (1500V DC upon request)
Operating Temperature	-40°C — +85°C
Maximum Series Fuse Rating	15 A
Static Load	5400 Pa
Safety Class	II
Fire Class	C

Thermal Characteristics

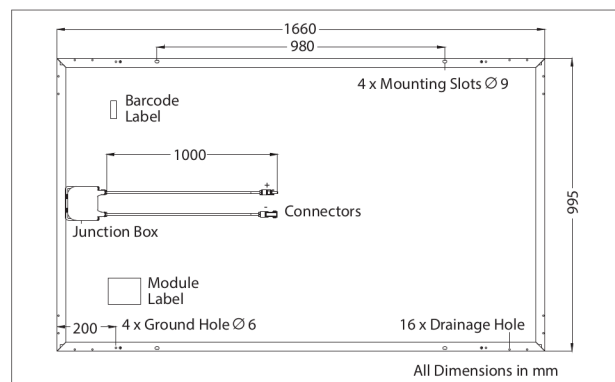
NOCT	45 ± 2	°C
Temperature Coefficient P _{mpp}	-0.39	% / °C
Temperature Coefficient I _{sc}	+0.05	% / °C
Temperature Coefficient V _{oc}	-0.31	% / °C

Mechanical Characteristics

Dimensions	1660mm x 995mm x 35mm
Cell Type	Monocrystalline
Cells per module	60
Weight	18kg ± 1kg
Front Glass	3.2mm High transmission and tempered glass with low iron content
Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Backsheet	PET film
Frame	Anodized aluminum alloy
J-Box	Protection class IP67 (3 bypass diode)
Cable	4 mm ² solar cable, Length: 1000 mm
Connector	MC4 compatible

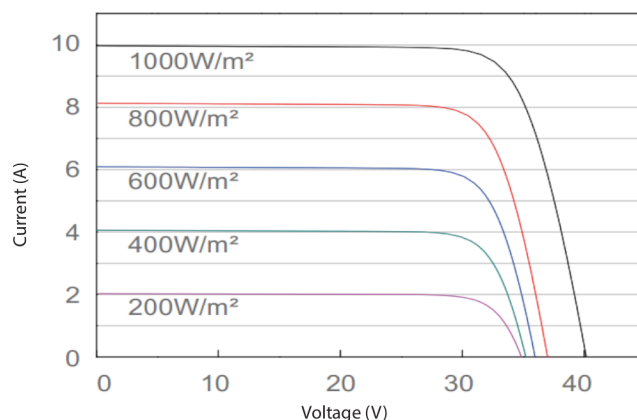
The information contained in this datasheet may deviate due to the ongoing innovation and product development processes. Schmid Pekintas reserves the right to make changes in the information described herein.

Module Technical Drawing

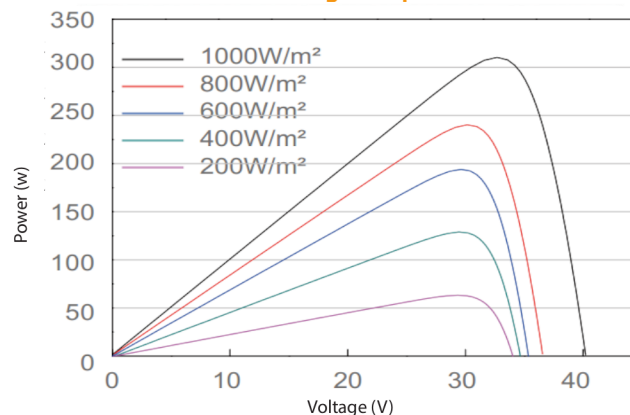


Performance at Low Irradiance

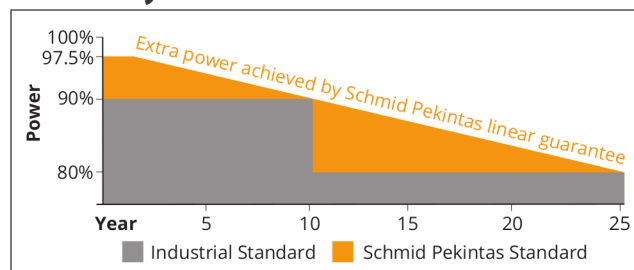
SPE 310 Current-Voltage Graph



SPE 310 Power-Voltage Graph



Warranty



10 years Product Warranty **25 years** Linear Performance Guarantee



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