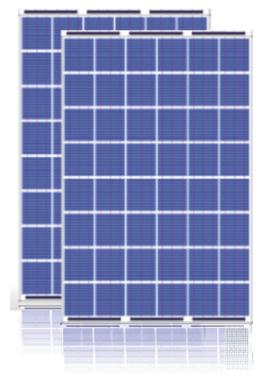
VIGESTSO



POLYCRYSALLINE MODULES VG - P 190-210 W

Tempered glass with high optical transmittance

High efficiency cells with anti-reflective layer

Quick connectors, double insulated flexible cable















ELECTRICAL CHARACTERISTICS						
Maximum power (Pmpp)	Watts	190	195	200	205	210
Tolerance	%	0 ~ + 3				
Voltage at maximum power (Vmpp)	Volts	23.83	23.99	24.18	24.34	24.49
Current at maximum power (Impp)	Amperes	7.97	8.13	8.27	8.42	8.57
Open circuit voltage (Voc)	Volts	29.42	29.62	29.86	30.05	30.24
Short circuit current (Isc)	Amperes	8.5	8.63	8.77	8.83	8.97
Maximum system voltage (Vsyst)	Volts	600 (UL) 1000 (IEC)				
Diodes (By-pass)	Quantity	6				
Maximum series fuse	Amperes	15				
Efficiency (m)	%	14.47	14.85	15.23	15.61	15.99
Form Factor	%	73				
Protection	Grade	IP - 65				

Size	mm	1324x992x45	
Weight	Net	15 kg	
Structure	Material	Anodized aluminum AL6063-T5, minim15 μm	
	Туре	Polycrystalline	
Cells	Quantity	6 x 8 = 48	
	Size	156 x 156 mm.	
Encapsulation	Materials	3,2mm Glass/EVA/Cells/EVA/TPT	
Junction box	Туре	IP-65 – TÜV-IEC/EN 61215	
Junction box	Isolation	Versus humidity and inclement weather	
Cables	Туре	900 mm, polarized and symmetric in length/section 4 mm ²	
Connectors	Type	Compatible Type III and Type IV	

CHECK FOR AVAILABILITIES





TEMPERATURE COEFFICIENTS	
Coefficient of short circuit current (Icc)	+ 0.055 %/° C
Coefficient of open circuit voltage (Voc)	- 0.347 %/º C
Coefficient of power (Pmpp)	- 0.48 %/º C
Maximum power temperature coefficient (Impp)	+ 0.10 %/° C
VoltageT coefficient of maximum power (Vmpp)	- 0.38 %/º C
NOCT (Nominal Operating Cell Temperature)	+ 47 ± 2 ° C

TOLERANCES	
Working temperature	- 40 ~ + 85 ° C
Dielectric Isolation Voltage	3000 V
Wind resistance	60 m/s
Mechanical load-bearing capacity	551 kg./m² (5400Pa) IEC
Fire resistance	Class C

CHARACTERISTICS OF WORK

The power of solar cells varies in the output of the production process. The different power specifications of these modules reflect this dispersion.

Cells during the early months of light exposure, may experience a degradation photonics could decrease the value of the maximum power the module up to 3 %.

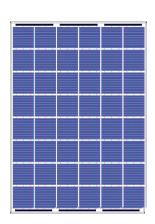
The cells, in normal operating conditions, reach a temperature above the standard measurement conditions of the laboratory. The NOCT is a quantitative measure of the increase. NOCT measurement is performed under the following conditions: radiation of 0.8 kW/m2, temperature 20° C and wind speed of 1 m/s.

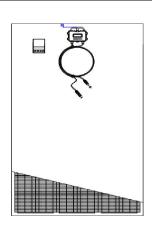
The electrical data reflect typical values of the modules and laminates as measured at the output terminals at the end of the manufacturing process.

WARRANTIES

Manufacturing defects - 12 years

Performance - 90 % at 12 years; 80 % at 25 years.





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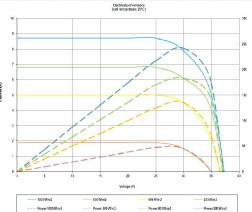
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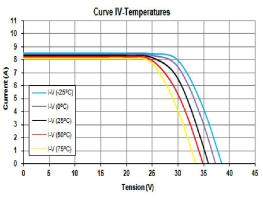
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Temperature depending on Isc, Voc and Pmax

