

# DIAMOND

## PV MODULES WITH X-FACTOR

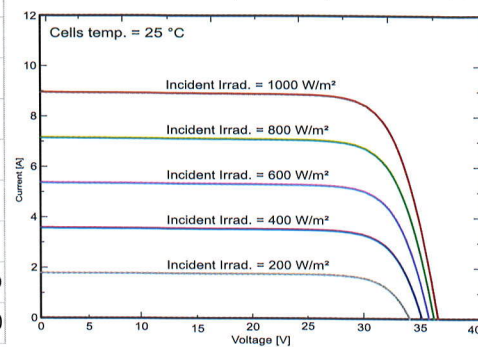
290Wp - 310Wp Mono Crystalline-60 Cells



### Electrical Specifications

Model	ALP-290	ALP-295	ALP-300	ALP-305	ALP-310
Peak Power (Pmax)	290Wp	295Wp	300Wp	305Wp	310Wp
Rated Voltage (Vmp)	32.43V	32.75V	33.17V	33.52V	33.92V
Rated Current (Imp)	8.95A	9.01A	9.05A	9.10A	9.14A
Open Circuit Voltage (V)	39.02V	39.30V	39.50V	39.90V	40.20V
Short Circuit Current (I)	9.55A	9.61A	9.64A	9.67A	9.69A
Module Efficiency (%)	17.66	17.96	18.27	18.56	18.87
Tolerance	0~+4.99Wp	0~+4.99Wp	0~+4.99Wp	0~+4.99Wp	0~+4.99Wp
Maximum System Voltage (V)	1000/1500	1000/1500	1000/1500	1000/1500	1000/1500

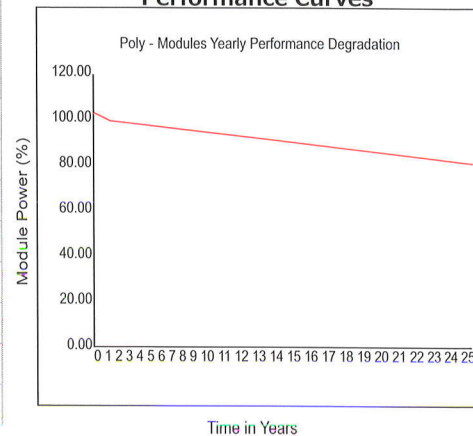
IV Curves for 305 Wp monocrystalline module



### Mechanical Specifications

Length x Width x Height	1656 x 992 x 35mm
Weight	18.10 kg
Junction Box	IP 65/67 rated with 3 Bypass Diodes Cables & Connectors)
Cable & Connectors	1000 mm (MC4 Compatible)
Application Class	Class A (Safety class II)
Superstrate	High transmission, low iron tempered glass, AR Coated
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Multilayerd Back sheet (white colour)
Frame	Anodized Aluminium frame
Mechanical Load test	5400Pa
Maximum Series Fuses Rating	15A

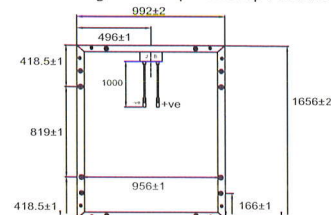
Performance Curves



### Temperature Coefficient

NOCT*	46°C ± 2°C
Coefficient Power (%/°K)	-0.39%/°K
Coefficient Voltage (%/°K)	-0.31%/°K
Coefficient Current (%/°K)	0.05%/°K
Temperature Range	-40°C to 85°C

Drawing of 290Wp - 310Wp Module



### Warranty and Certifications

Performance*	Power output of 90% at the end of 10 Years and 80% at the end 25 Years
Approved Certificates	IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, UI1703, IEC 62804**
* Refer to Alpex Modules Warranty Document	
** IEC 62804 Standard still not and enforced	

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