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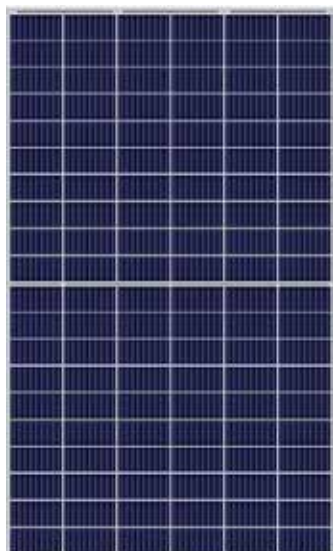


**Solar Panel Guide
Specification Data Sheet**







Ningbo Rarlon Photovoltaic Technology Co., Ltd
RL290-310HP-120
RL305HP-120

Also available on the web at
EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl305hp-120

Photovoltaic Module Polycrystalline120



KEY FEATURES

-  High module efficiency through superior manufacturing technology
-  No power loss thanks to improved temperature co-efficient caused by 5BB or 9BB per solar cell
-  Strictly control the micro-crack of solar cells and the other non visible defect of internal modules
-  Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa
-  Manufactured according to and certified international I Quality and Environment Management System
-  Using advanced low reflection and high light transmission glass and cell sheet surface cutting technology, in the weak light environment can also play a good performance.



Temperature Coefficient and Mechanical Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C+/-2°C		Front glass	3.2mm tempered glass
Temperature Coefficient of Pmax	-0.39%/°C		Frame	Anodized aluminium alloy
Temperature Coefficient of VOC	-0.29%/°C		Junction box	PV—*****
Temperature Coefficient of ISC	+0.05%/°C		Connector	Plug and socket
No.of cells	120 (6x20)		1*20'	/
Dimensions	1698mm*1004mm*35mm		1*40'	/
Weight	18.5kg		1*40'HQ	780pcs

Electrical Characteristics

Model	RL290HP-120	RL295HP-120	RL300HP-120	RL305HP-120	RL310HP-120
Maximum Power at STC(Pmax)	290W	295W	300W	305W	310W
Optimum Operating Voltage (Vmp)	32.78V	33.23V	31.52V	31.88V	32.3V
Optimum Operating Current (Imp)	8.85A	8.88A	9.52A	9.57A	9.60A
Open-Circuit Voltage(Voc)	39.0V	39.2V	38.68V	38.95V	39.27V
Short-Circuit Current (Isc)	9.67A	9.78A	10.00A	10.03A	10.06A
Solar Module Efficiency (%)	17.45	17.75	18.05	18.36	18.66
Operating Temperature	-40to85℃				
Maximum System Voltage	DC1000				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m²,Modules Temperature 25℃,AM=1.5					