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Solar Panel Guide Specification Data Sheet

Ningbo Rarlon Photovoltaic Technology Co., Ltd

RL390-410HM-144







RL405HM-144

Also available on the web at
[EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl405hm-](http://EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl405hm-144)

Photovoltaic Module Monocrystalline 144



KEY FEATURES

-  High module efficiency through superior manufacturing technology
-  No power loss thanks to improved temperature co-efficient caused by 5BB or 9BB perc 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 coated 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	144 (6x24)		1*20'	/
Dimensions	2024mm*1004mm*35mm		1*40'	/
Weight	22.5kg		1*40'HQ	660pcs

Electrical Characteristics

Model	RL390HM-144	RL395HM-144	RL400HM-144	RL405HM-144	RL410HM-144
Maximum Power at STC(Pmax)	390W	395W	400W	405W	410W
Optimum Operating Voltage (Vmp)	41V	41.2V	41.4V	41.6V	41.8V
Optimum Operating Current (Imp)	9.5A	9.57A	9.64A	9.71A	9.78A
Open-Circuit Voltage(Voc)	49.4V	49.6V	49.8V	50.0V	50.2V
Short-Circuit Current (Isc)	10.1A	10.17A	10.24A	10.31A	10.38A
Solar Module Efficiency (%)	19.7	20.0	20.2	20.4	20.7
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1000				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m ² ,Modules Temperature 25°C,AM=1.5					