

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

**Call: 1-800-990-3725**

**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**







**Ningbo Rarlon Photovoltaic Technology Co., Ltd**  
**RL300-310HM-60 Black**  
**RL310HM-60**

Also available on the web at  
[EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl310hm-](http://EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl310hm-60)

# Photovoltaic Module Monocrystalline60 Black



## 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)	47°C+/-2°C		Front glass	3.2mm tempered glass
Temperature Coefficient of Pmax	-0.47%/°C		Frame	Anodized aluminium alloy
Temperature Coefficient of VOC	-0.346%/°C		Junction box	PV_*****
Temperature Coefficient of ISC	+0.036%/°C		Connector	Plug and socket
Solar cell	Mono156*156mm		Output cables	PV 4.0mm <sup>2</sup> ,0.9m
No.of cells	60 (6x10)		1*20'	400 pcs
Dimensions	1640mm*992mm*35mm		1*40'	840 pcs
Weight	17kg		1*40'HQ	960 pcs

## Electrical Characteristics

Model	RL300HM-60	RL305HM-60	RL310HM-60
Maximum Power at STC(Pmax)	300W	305W	310W
Optimum Operating Voltage (Vmp)	31.89V	31.96V	32.04V
Optimum Operating Current (Imp)	9.407A	9.543A	9.675A
Open-Circuit Voltage(Voc)	39.21V	39.29V	39.37V
Short-Circuit Current (Isc)	9.885A	10.082A	10.226A
Solar Cell Efficiency(%)	20.93	21.30	21.66
Solar Module Efficiency (%)	18.44	18.75	19.05
Operating Temperature	-40to85°C		
Maximum System Voltage	DC1000		
Maximum Series Fuse Rating	15A		
Power Tolerance	0~+3%		
STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25°C,AM=1.5			