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Solar Panel Guide Specification Data Sheet

Ningbo Rarlon Photovoltaic Technology Co., Ltd

RL250-310HM-60







RL280HM-60

Also available on the web at
[EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl280hm-](http://EnergyPal.com/ningbo-rarlon-photovoltaic-technology-co-ltd-solar-panels/rl280hm-60)

Photovoltaic Module Monocrystalline60



KEY FEATURES

-  High module efficiency through superior manufacturing technology
-  No power loss thanks to improved temperature co-efficient caused by 5BB or 6BB 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 ² ,0.9m
No.of cells	60 (6x10)		1*20'	400 pcs
Dimensions	1640mm*992mm*35mm		1*40'	840 pcs
Weight	17kg		1*40'HQ	960pcs

Electrical Characteristics

Model	RL250HM-60	RL260HM-60	RL270HM-60	RL280HM-60	RL290HM-60	RL300HM-60	RL310HM-60
Maximum Power at STC(Pmax)	250W	260W	270W	280W	290W	300W	310W
Optimum Operating Voltage (Vmp)	30.72V	30.92V	31.14V	31.18 V	31.74 V	31.89 V	32.05 V
Optimum Operating Current (Imp)	8.138A	8.409A	8.671A	8.98 A	9.138 A	9.408 A	9.675 A
Open-Circuit Voltage(Voc)	36.91V	37.36V	37.4V	37.44 V	39.05 V	39.21 V	39.37 V
Short-Circuit Current (Isc)	9.031A	9.279A	9.626A	9.972 A	9.594 A	9.885 A	10.226 A
Solar Cell Efficiency(%)	17.44	18.13	18.83	19.53	20.23	20.93	21.66
Solar Module Efficiency (%)	15.37	15.98	16.60	17.21	17.83	18.44	19.05
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							