

## PR-105M5-36

Mono-Crystalline Solar Module  
85-105 Watt 5inch 36cells



High conversion efficiency  
High module efficiency to guarantee power output



Excellent loading capability  
2400Pa wind loads, 5400Pa snow loads.



Self-cleaning glass  
Coating glass for self-cleaning, reduce surface dust



0 to +3%  
Detailed information in Electrical Specifications



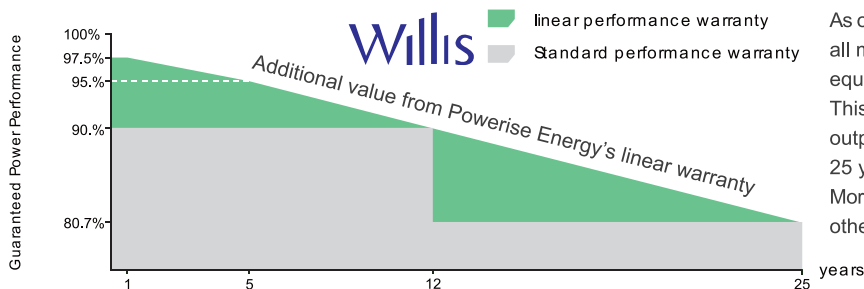
Outstanding low irradiation performance  
Excellent module efficiency even in the weak light conditions, such as morning or cloudy



48 48-hour response service

### LINEAR PERFORMANCE WARRANTY

25 years power output guarantee insured by the Willis insurance



As one of the first manufactures worldwide all modules from Powerise Energy are equipped with the new Willis insurance. This means you can rely on an insured output of 90% for 12 years and 80% for 25 years. More security cannot be achieved by any other insurance.

## ELECTRICAL PERFORMANCE

All specified Parameters are at STC 25°C Ambient, 1000W/m<sup>2</sup> irradiance and AM 1.5

Type		PR-85M5-36	PR-90M5-36	PR-95M5-36	PR-100M5-36	PR-105M5-36
Power Output	Pmax(W)	85	90	95	100	105
Power Output Tolerance	Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Max-Power Voltage	Vmp(V)	17.8	18.0	18.3	18.8	19.15
Max-Power Current	Imp(A)	4.94	5.01	5.19	5.32	5.48
Open-Circuit Voltage	Voc(V)	22.05	22.15	22.55	23.0	23.3
Short-Circuit Current	Isc(A)	5.28	5.38	5.52	5.60	5.88
Cell Efficiency	(%)	15.9	16.8	17.7	18.7	19.6
Module Efficiency	(%)	13.1	13.9	14.7	15.4	16.2

## THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT(°C)	45±2
Temperature Coefficients of Pmax	(%/°C)	-0.438
Temperature Coefficients of Voc	(%/°C)	-0.297
Temperature Coefficients of Isc	(%/°C)	0.037

## OPERATING CONDITIONS

Maximum System Voltage	(VDC)	600V(IEC)
Maximum Series Fuse	(A)	10
Operating Temperature	(°C)	-40~+85
Maximum Load(snow/wind)		5400pa/2400pa

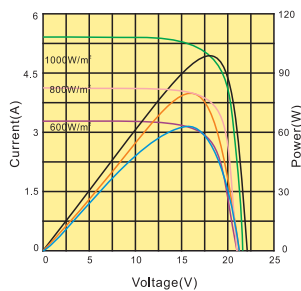
## MECHANICAL CHARACTERISTICS

Solar cells(type/dimension)	Mono-Crystalline Silicon/125mm*125mm
Cells number	36pcs(4*9)
Front cover(material/thickness)	Low iron tempered glass/3.2mm
Backsheet(color)	White
Frame(material/color)	Anodized aluminum alloy/Silver
Junction box(protection degree)	≧ IP65
Cables/Plug Connector	Diameter 4mm <sup>2</sup> , Length 900mm/MC4 or MC4 compatible
Module Dimension	1200×540×35mm
Module Weight	7.5kg

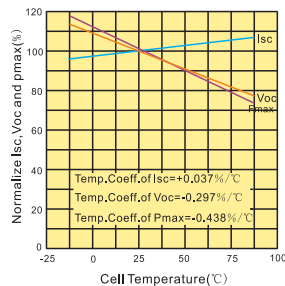
## PACKING DETAILS

Container	20'GP	40'HQ
Pieces per pallet	/	/
Pallets per container	9	19
Pieces per container	730	1840

Electrical performance  
(cell temperature:25°C)



Temperature dependence of Isc, Voc and pmax



Irradiance dependence of Isc, Voc and pmax cell temperature:25°C

