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# **EnergyPal**

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

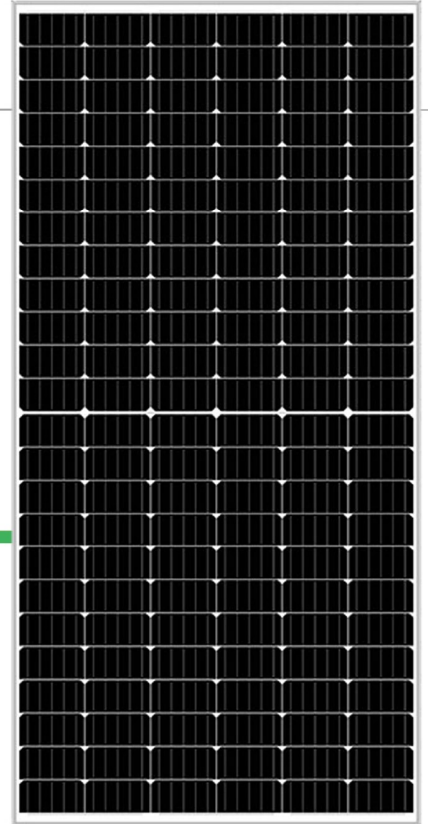
**Powitt Solar Co., Ltd.  
HC 375-395W Mono  
PEH-385M**

Also available on the web at  
[EnergyPal.com/powitt-solar-co-ltd-solar-panels/peh-385m](http://EnergyPal.com/powitt-solar-co-ltd-solar-panels/peh-385m)

MONO

Half Cell PERC Mono

375W-395W



144 CELL

MONOCRYSTALLINE MODULE

375W-395W

POWER OUTPUT RANGE

19.9%

MAXIMUM EFFICIENCY

0 to +3%

POSITIVE POWER TOLERANCE

CERTIFICATION



Higher Output of Power

Effectively reduce the unit cost of PV solar system by watt



Optimize the temperature coefficient

Improve the performance under the condition of shadow and low temperature coefficient



Reduce the shadow loss on the power output

Effectively reduce the risk of heat spot on high efficiency

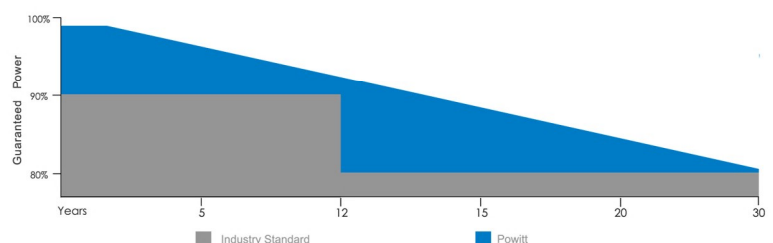


Stronger the physical property

Optimize the property of power generating and reliability of the system

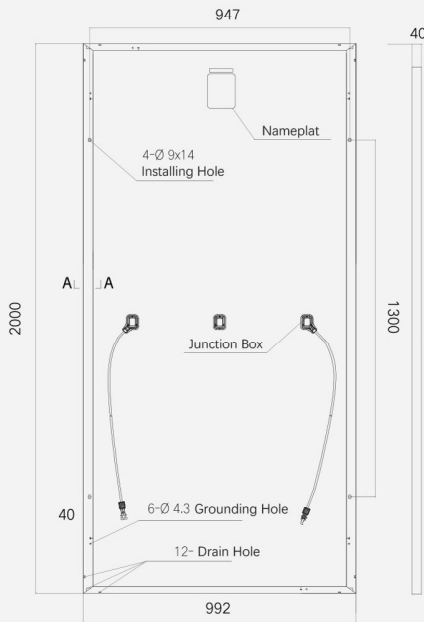
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty · 30 Year Linear Power Warranty

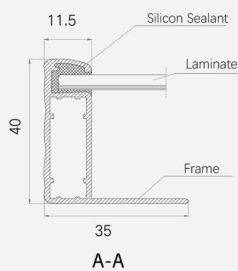


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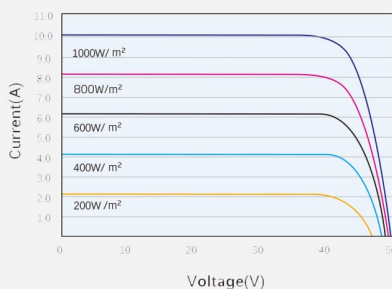
### DIMENSIONS OF PV MODULE



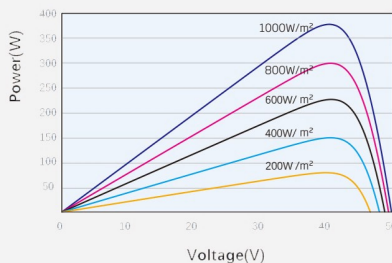
#### Back View



### I-V CURVES OF PV MODULE



### P-V CURVES OF PV MODULE



### ELECTRICAL DATA @STC

	PEH-375M	PEH-380M	PEH-385M	PEH-390M	PEH-395M
Peak Power Watts- $P_{MAX}$ (Wp)	375	380	385	390	395
Power Output Tolerance- $P_{MAX}$ (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage- $V_{MPP}$ (V)	39.80	40.00	40.20	40.40	40.60
Maximum Power Current- $I_{MPP}$	9.43	9.50	9.58	9.66	9.73
Open Circuit Voltage- $V_{OC}$ (V)	47.60	47.80	48.00	48.20	48.40
Short Circuit Current- $I_{SC}$ (A)	9.93	10.01	10.09	10.17	10.25
Module Efficiency $\eta_m$ (%)	18.9	19.2	19.4	19.7	19.9

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
 Average efficiency reduction of 4.5% at 200 W/m<sup>2</sup> according to EN 60904-1.

### ELECTRICAL DATA @ NOCT

	PEH-375M	PEH-380M	PEH-385M	PEH-390M	PEH-395M
Maximum Power- $P_{MAX}$ (Wp)	279	283	287	290	294
Maximum Power Voltage- $V_{MPP}$ (V)	37.00	37.20	37.40	37.60	37.80
Maximum Power Current- $I_{MPP}$ (A)	7.54	7.60	7.66	7.72	7.78
Open Circuit Voltage- $V_{OC}$ (V)	44.60	44.80	45.00	45.20	45.40
Short Circuit Current- $I_{SC}$ (A)	8.01	8.08	8.14	8.20	8.27

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

### MECHANICAL DATA

Solar Cells	Mono PERC 156.75 x 156.75mm
Cell Orientation	144 cells(6 x 24)
Module Dimensions	2000 x 992x 40 mm
Weight	22.5 kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass - 3.2mm
Backsheet	White
Frame	Silver Anodized Aluminium Alloy (Black Available)
J-Box	IP 68 rated
Cables	Photovoltaic Technology cable 4.0mm <sup>2</sup> , (+)285mm (-)140mm
Connector	MC4 Compatible

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of $P_{MAX}$	-0.36%/°C
Temperature Coefficient of $V_{OC}$	-0.28%/°C
Temperature Coefficient of $I_{SC}$	+0.048%/°C

### MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	20A
Mechanical Load	5400pa
Wind Load	2400pa

### PACKGING CONFIGURATION

Modules per box: 26 pieces
Modules per 40' container: 572 pieces
Modules per 20' container: 208pieces

### WARRANTY

12 year workmanship warranty
30 year linear performance warranty
(Please refer to product warranty for details)

### INSURANCE

Product liability insurance with CHUBB Group
Product performance(E&O)insurance CHUBB Group

## Powitt Solar Co Ltd

www.powitt.com  
 info@powitt.com  
 Tel: +86 519 8899 2132

**Wuxi:** Infinity New Energy  
 No.8-1, Yan Feng Road, Huishan, Wuxi, Jiangsu, China 214100  
**Changzhou:** Powitt Solar  
 Room 306, Building 5, Boji Park, Changzhou, Jiangsu, China 213000  
**Sri Lanka:** Powitt Solar Lanka(Pvt) Ltd  
 208 Stanley Thilakratne Mawatha, Jubilee Post, Nugegoda, Sri Lanka