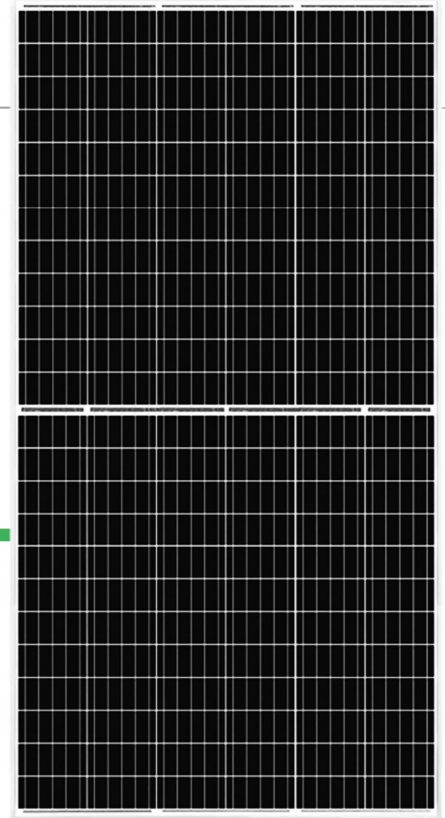


SQUARE MONO

Half Cell 390W-410W



144 CELL
MONOCRYSTALLINE MODULE

390W-410W
POWER OUTPUT RANGE

20.2%
MAXIMUM EFFICIENCY

0 to +3%
POSITIVE POWER TOLERANCE

CERTIFICATION



www.powitt.com



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

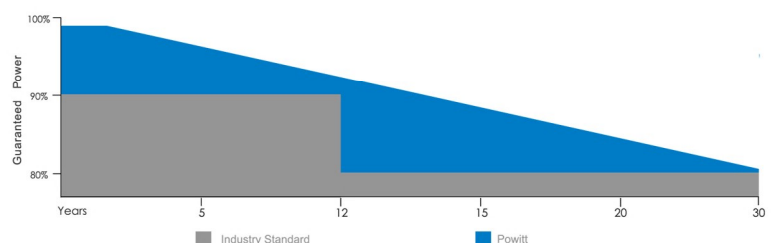


Stronger the physical property

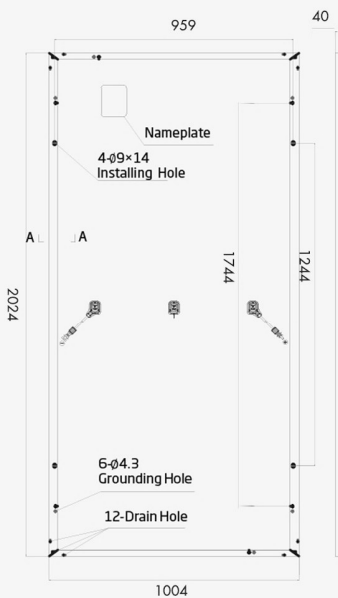
Optimize the property of power generating and reliability of the system

LINEAR PERFORMANCE WARRANTY

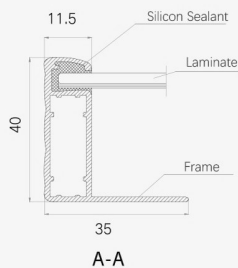
12 Year Product Warranty · 30 Year Linear Power Warranty



DIMENSIONS OF PV MODULE

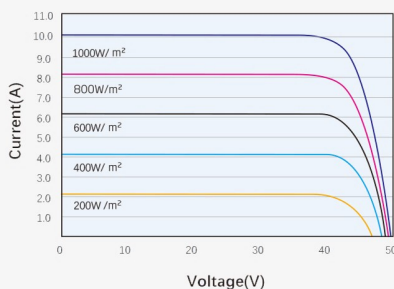


Back View

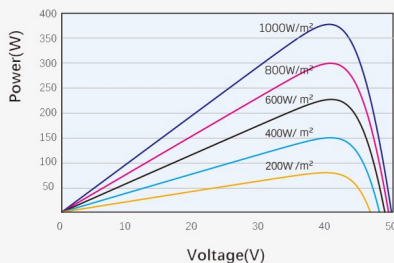


A-A

I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



ELECTRICAL DATA @STC

	PHC-390M	PHC-395M	PHC-400M	PHC-405M	PHC-410M
Peak Power Watts- P_{MAX} (Wp)	390	395	400	405	410
Power Output Tolerance- P_{MAX} (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage- V_{MPP} (V)	41.10	41.40	41.70	42.00	42.30
Maximum Power Current- I_{MPP}	9.49	9.55	9.60	9.65	9.69
Open Circuit Voltage- V_{OC} (V)	49.30	49.50	49.80	50.10	50.4
Short Circuit Current- I_{SC} (A)	10.12	10.23	10.36	10.48	10.60
Module Efficiency η_m (%)	19.2	19.4	19.7	19.9	20.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

ELECTRICAL DATA @ NOCT

	PHC-390M	PHC-395M	PHC-400M	PHC-405M	PHC-410M
Maximum Power- P_{MAX} (Wp)	294	298	302	306	310
Maximum Power Voltage- V_{MPP} (V)	39.10	39.30	39.60	39.80	40.00
Maximum Power Current- I_{MPP} (A)	7.54	7.60	7.66	7.72	7.76
Open Circuit Voltage- V_{OC} (V)	48.00	48.20	48.50	48.70	48.90
Short Circuit Current- I_{SC} (A)	8.02	8.09	8.16	8.22	8.26

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar Cells	Square Mono PERC 158.75 x 158.75mm
Cell Orientation	144 cells(6 x 24)
Module Dimensions	2024 x 1004 x 40 mm
Weight	22.8 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 ² , (+)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

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