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EnergyPal

Solar Panel Guide Specification Data Sheet

Powitt Solar Co., Ltd.

Mono300-315W

PW-6M600-305

Also available on the web at
EnergyPal.com/powitt-solar-co-ltd-solar-panels/pw-6m600-305

MONO

SOLAR MODULE

315W
6M60 SERIES
300W-315W

MONOCRYSTALLINE SOLAR MODULE



60 CELL

MONOCRYSTALLINE MODULE

300W-315W

POWER OUTPUT RANGE

19.4%

MAXIMUM EFFICIENCY

0 to +5%

POSITIVE POWER TOLERANCE

CERTIFICATION



Maximize limited space with high efficiency

Up to 168W/m² power density



Excellent low light performance on cloudy days

Advanced surface texturing
White surface field
Selective emitter



Highly reliable due to stringent quality control

Over 30 in-house tests (UV, TC, HF and many more)
In-house testing goes well beyond certification requirements
PID-resistant

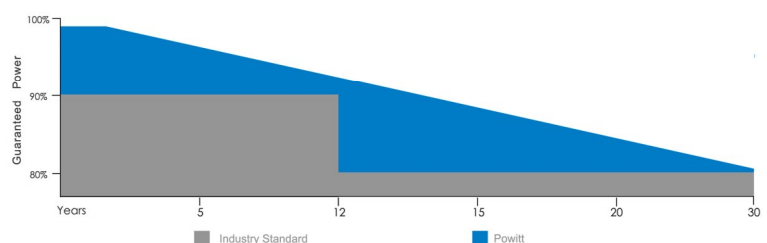


Certified to withstand challenging environmental conditions

35 mm hail stones at 97 km/h

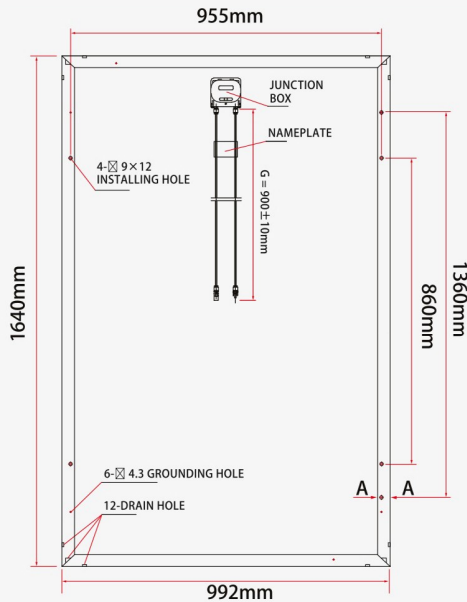
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty · 30 Year Linear Power Warranty

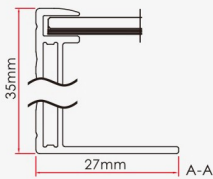


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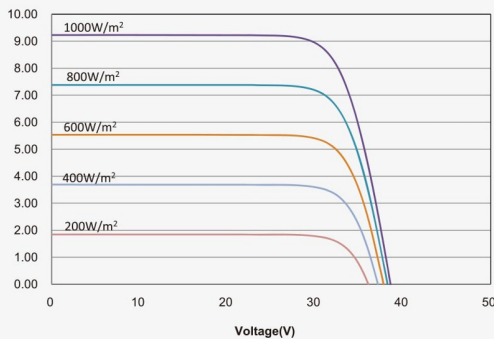
DIMENSIONS OF PV MODULE



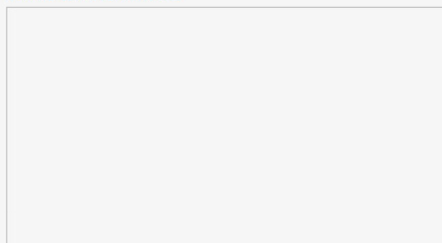
Back View



I-V CURVES OF PV MODULE



Dear Information



ELECTRICAL DATA @STC

	PW-6M60-300	PW-6M60-305	PW-6M60-310	PW-6M60-315
Peak Power Watts- P_{MAX} (Wp)	300	305	310	315
Power Output Tolerance- P_{MAX} (%)	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage- V_{MPP} (V)	32.6	32.8	33.0	33.2
Maximum Power Current- I_{MPP}	9.19	9.3	9.4	9.49
Open Circuit Voltage- V_{OC} (V)	39.9	40.3	40.5	40.7
Short Circuit Current- I_{SC} (A)	9.64	9.83	9.92	10.04
Module Efficiency η_m (%)	18.3	18.7	19.1	19.4

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

	PW-6M60-300	PW-6M60-305	PW-6M60-310	PW-6M60-315
Maximum Power- P_{MAX} (Wp)	223	227	231	235
Maximum Power Voltage- U_{MPP} (V)	30.4	30.8	30.7	30.9
Maximum Power Current- I_{MPP} (A)	7.35	7.4	7.53	7.6
Open Circuit Voltage- U_{OC} (V)	37.1	37.2	37.4	37.6
Short Circuit Current- I_{SC} (A)	7.78	8.12	8.03	8.1

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

MECHANICAL DATA

Solar Cells	Monocrystalline 156.75 x 156.75mm
Cell Orientation	60 cells (6 x 10)
Module Dimensions	1640 x 992 x 35mm
Weight	18.2 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 67 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , 900mm(Customized Available)
Connector	MC4 Compatible

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of P_{MAX}	-0.38%/°C
Temperature Coefficient of V_{OC}	-0.28%/°C
Temperature Coefficient of I_{SC}	+0.05%/°C

MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	15A
Mechanical Load	5400pa
Wind Load	2400pa

PACKGING CONFIGURATION

Modules per box: 30 pieces
Modules per 40' container: 840 pieces
Modules per 20' container: 360 pieces

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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