with impact speed of 30.7 m·s⁻¹

30 pcs/box: 840 pcs/40' container; 1440 pcs/flat car

10 year Product Workmanship

Warranty

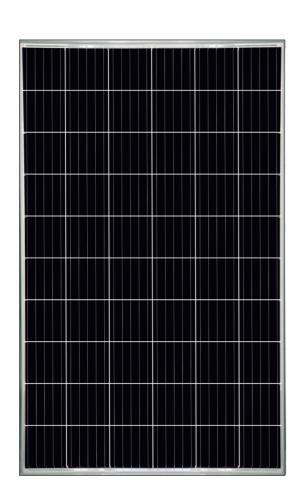
25 year Linear

Power Warranty



BLACK SILICON

POLYCRSTALLINE SOLAR MODULE TW275PWH-60





Higher module power

Special surface treatment of black silicon solar cell effectively eliminates reflection of the solar cell, and increases utilization rate of incident light, achieving high efficiency of both solar cell and module, and low module costs.



Be capable for connecting more modules in series, and reduce number of power station cables and combiner boxes; increase space utilization and cut system cost.

Strict quality control

Advanced full-automatic production line, 100% EL during process and ex-factory; strict quality inspection control, 0~+5% positive power output; optimized current grading; all these ensure generating performance matching of system-end modules and high generation output of modules

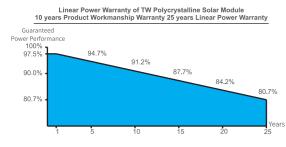
Longer service life

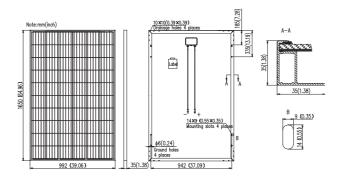
Weather-resistant package material, anti-PID solar cell, waterproof IP67 junction box and special cables for solar PV; all these functions protect modules against temperature difference between day and night, seasonal change and abnormal wet and cold weather, and provide longer service life.



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MECHANICAL CHARACTERISTICS

Dimensions	1650×992×35 mm (L×W×H)		NOCT
Weight	18.2 kg	_	Temperatu
Front Glass	White toughened safety glass, 3.2mm	_	Temperatu
Encapsulation	EVA (Ethylene-Vinyl-Acetate)		Temperatu
Cells	60pcs 156.75×156.75mm Polycrystalline solar 5 busbars black silicon solar cells		
Backsheet	Composite film		Maximum \$
Frame	Anodized aluminum profile	-	Series Fus
Junction Box	Rated current:13A, IP67, TUV&UL	_	Maximum
Cable	Length 900mm, 1×4mm²	-	Temperatu
Connector	Compatible with MC4		Withstandi

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NOCT	45°C(±2°C)
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.043%/℃
Temperature Coefficient of Pm	-0.40%/°C

MAXIMUM RATINGS

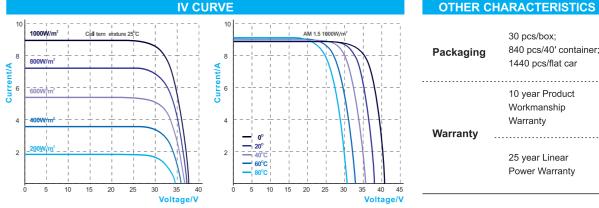
Maximum System Voltage [V	DC 1000(IEC) DC1000(UL)						
Series Fuse Rating [A]	20						
Maximum Surface Load Cap	acity [Pa] 5,400						
Temperature Range [°C]	– 40 to + 85						
Withstanding Hail	Maximum diameter of 45 mm						

ELECTRICAL CHARAC	I EKIS	IICS AI	SIAN	IDAKD	IESI	CONDIT	ION2(2	516)
Module Type: TW 275 MF-60	295	290	285	280	275	270	265	260
Maximum Power-Pm [W]	295	290	285	280	275	270	265	260
Open Circuit Voltage-Voc [V]	38.7	38.6	38.5	38.4	38.3	38.2	38.1	38.0
Short Circuit Current-Isc [A]	9.52	9.44	9.36	9.29	9.22	9.15	9.08	9.01
Maximum Power Voltage-Vm [V]	32.2	32.0	31.8	31.6	31.4	31.2	31.0	30.8
Maximum Power Current-Im [A]	9.16	9.06	8.96	8.86	8.76	8.65	8.55	8.44
Module Efficiency-η [%]	18.0	17.7	17.4	17.1	16.8	16.5	16.2	15.9

ELECT	RICAL (CHAR/	CTERI	STICS	AT NO	CT		
Maximum Power-Pm [W]	217	213	210	206	202	199	195	191
Open Circuit Voltage-Voc [V]	35.3	35.2	35.1	35.0	34.9	34.8	34.7	34.6
Short Circuit Current-Isc [A]	7.68	7.62	7.55	7.50	7.44	7.38	7.33	7.27
Maximum Power Voltage-Vm [V]	29.4	29.2	29.0	28.8	28.6	28.5	28.3	28.1
Maximum Power Current-Im [A]	7.39	7.31	7.23	7.15	7.07	6.98	6.90	6.81

Note: 1. Standard Test Conditions [STC]: irradiance 1000 W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;

- 2. Normal Operating Cell Temperature (NOCT): Irradiance 800W/ m²; wind speed 1m/s ,cell temperature 45°C; ambient temperature 20°C.
- 3. Tolerance of Pm: 0~+5%, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±5%.



right to adjust the technical parameter at any time without notifying the customers, TW Solar has the ultimate power of interpretation to this technical specification 30