1SolTech

MADE IN THE USA

1SOLTECH REFLECTION SERIES – 60 CELL BLK

Monocrystalline Solar Module **(245W - 260W)**

1SolTech is a leading American manufacturer of high-quality, cost-effective solar modules. Our low-maintenance, high-performance monocrystalline modules are engineered for high-efficiency and long life. 1SolTech modules are a durable and reliable solution for all residential, commercial and utility applications. Just as important, 1SolTech, which manufactures its modules with primarily American components, is committed to making the US a leading manufacturer in the solar industry. When you choose 1SolTech, you choose America.

INDUSTRY LEADING WARRANTY: 1SolTech solar modules are backed by an industry leading comprehensive 25-year linear performance warranty, in addition to a 10-year warranty against defects in materials or workmanship. Tight power tolerances within +/- 3% of the module nameplate rating.

HIGH WIND AND SNOW MECHANICAL TOLERANCES: 1SolTech solar modules are tested to withstand extreme temperature variations as well as high wind loads and snow loads to 5400 pa. Our heavy duty frames and 4mm thick glass, along with stringent processes, ensure years of reliable performance no matter what terrain.

CERTIFICATIONS:

All 1SolTech modules are:

- ETL approved and certified to meet UL 1703 requirements and standards
- CEC Listed: Modules are approved for California rebates
- FSEC listed: Modules are approved for Florida rebates

A Quick Overview:

- HIGH-EFFICIENCY/LONG LIFE
- INDUSTRY LEADING WARRANTY
- HIGH SNOW & WIND LOADS
- INDUSTRY LEADING CERTIFICATIONS
- CEC AND FSEC LISTED

Proud to say:

Buy "Made in the USA" products with confidence. All 1SolTech modules are manufactured with pride in our Dallas/Ft Worth, TX facility using 93% components sourced from domestic manufacturers.

1SolTech Modules:

- Qualify under the Buy American Act (BAA)
- Qualify under the American Recovery & Reinvestment Act (ARRA)

1SolTech
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REFLECTION SERIES 60-Cell Monocrystalline Modules

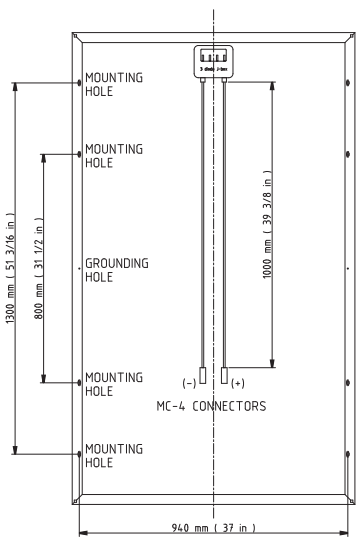
Electrical Data

Module Type	1 STH - 245	1 STH - 250	1 STH - 255	1 STH - 260
Max Power PM (W)	245	250	255	260
Max Power Voltage Vm (V)	30.2	30.7	31.1	31.5
Max Power Current Im (A)	8.10	8.15	8.20	8.25
Open Circuit Voltage Voc (V)	37.2	37.3	37.4	37.5
Short Circuit Current Isc (A)	8.62	8.66	8.70	8.74
Module Efficiency	15.0%	15.3%	15.6%	15.9%

Maximum System Voltage (V) = 600 (UL),1000 (IEC)
Power Tolerances = ± 3%
Power measurement accuracy = ± 3%

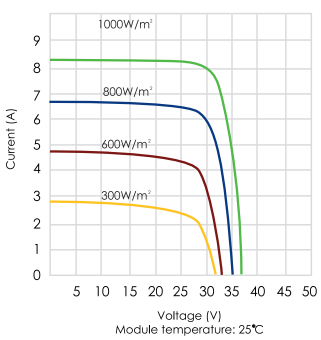
Components & Mechanical Data

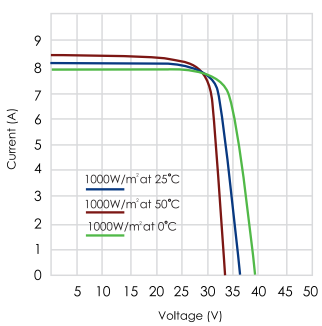
Front Glass	Low iron, 4mm tempered
Junction Box	IP-65 rated, UL approved
Diodes	15Ax3
Output Cables	1m cable (39 3/8 in), 12AWG, UL approved
Connectors	MC-4, IP-67, UL approved
Frame	BLK Anodized aluminum alloy type 6063-T5 (also available in SLV)
Encapsulation Material	EVA
Back Sheet	Black
Temperature Range	-40°C to + 90°C

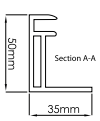


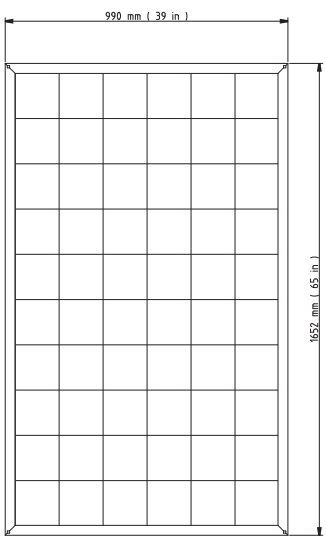
Temperature Coefficients

NOCT (°C)	50
Current Temp Coefficients αI_{SC} (%/°C)	+0.09
Voltage Temp Coefficients βV_{OC} (%/°C)	-0.37
Temp Coefficients γP_{MAX} (%/°C)	-0.48









Specifications

Cells	Monocrystalline 156mm x 156mm
Cells Number	60 (6x10)
Dimensions (mm)/(in)	1652 x990 x 50 / 65 x 39 x 2
Weight (kg)/(lb)	24/53

1SolTech Inc. reserves the right to change data at anytime without notice

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