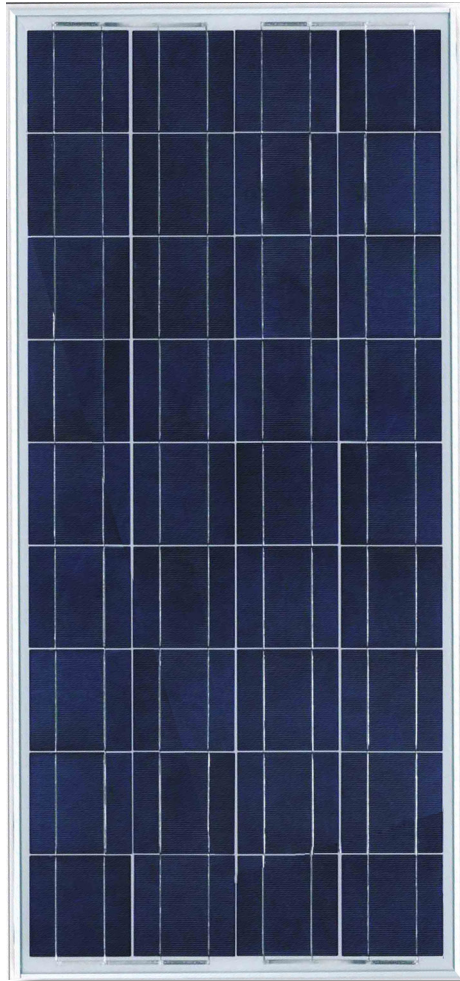




HES-160-36PV // 160Wp // 36-Cell Poly-Crystalline Solar Module



www.hespv.ca



HES solar modules with high efficiency crystalline solar cells, offers high charge current at a voltage suitable for both summer and winter temperatures. The cells are bonded to a special tempered solar glass for watertight integrity and a deep anodized aluminum frame makes them strong and rugged for all Canadian environments.

BUILT FOR CANADA

The HES-160-36PV solar modules offer reliable battery charging in all Canadian climates. Their rugged design makes them a popular choice for industrial systems, remote homes and RV battery charging systems.

MECHANICAL STRENGTH

The rugged anodized aluminum frame mates with the HES pole and roof mounts for a strong and secure solar system. Panels may be installed in portrait or landscape.

PLUG AND PLAY WIRING

The HES-160-36PV uses MC-4 type wiring connectors, and offers secure, plug and play electrical connections. Use the sunlight resistant HES MC Series cables to extend the array cabling up to 50 ft, or HES combiners to transition to conduit or Teck cable.

RELIABLE

10 year mechanical warranty and 25 year power output warranty ensure your solar system delivers power to your load.



CONTACT YOUR HES PV SOLAR PROVIDER TODAY



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ELECTRICAL CHARACTERISTICS

Max Power (Pmax)	160 W
Tolerance of (Pmax)	0~+ 5W
Type of Cell	Poly-Crystalline
Cell Configuration	36 in series
Open Circuit Voltage (Voc)	22.7 V
Maximum Power Voltage (Vpm)	18.4 V
Short Circuit Current (Isc)	9.14 A
Maximum Power Current (Ipm)	8.69 A
Maximum (DC) Voltage (UL/IEC)	600 V / 1000 V
Series Fuse Rating	15 A

STC - Standard Test Conditions: Irradiation 1000 W/m² - Air mass AM 1.5 - Cell temperature 25 °C

* Calculated using maximum power

MECHANICAL CHARACTERISTICS

Dimensions (A x B x C right)	58.3" x 26.6" x 1.38" 1480 x 676 x 35 mm
Cable Length	800 mm
Output Interconnect Cable	>800 mm (symmetrical), MC4 type connectors
Weight	12.8 kg / 28.2 lbs
Operating Temperature	-40 to 85° C -40 to 185°F

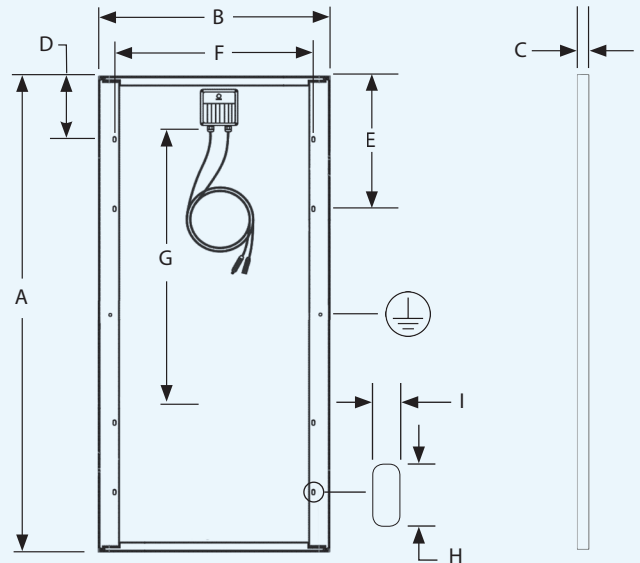
RATING CHARACTERISTICS

Application Class	Class A
Fire Resistance Class	Class C (UL)
Max Snow Loads (front)	5400Pa
Max Wind Loads (Front & Back)	2400Pa
Max Hailstone Impact (Ø @ 23m/s)	25mm

CERTIFICATIONS

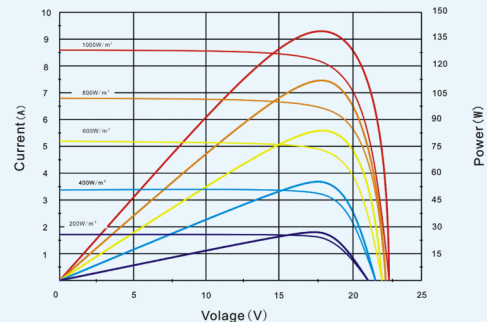
CSA
CE Standard

DIMENSIONS



A	B	C	D	E
58.3"/1480 mm	26.6"/676 mm	1.6"/40mm	5.5"/140mm	15.4"/390mm
F	G	H	I	
24.6"/626mm	38.4"/975	0.56"/14.25mm	0.36"/9.25mm	

IV CURVES



WARRANTY

10 Year limited warranty on material and workmanship
 25 Year Power Guarantee
 Years 0 - 10 > 90%
 Years 10 - 25 > 80%



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