

SOLAR EARTH

World's toughest solar



SOLAR EARTH TECHNICAL DATA SHEET

- Pavement Integrated PV
- Technical Data
- Construction Solutions



SolarEarth.ca

Pavement Integrated PV (PIPV)

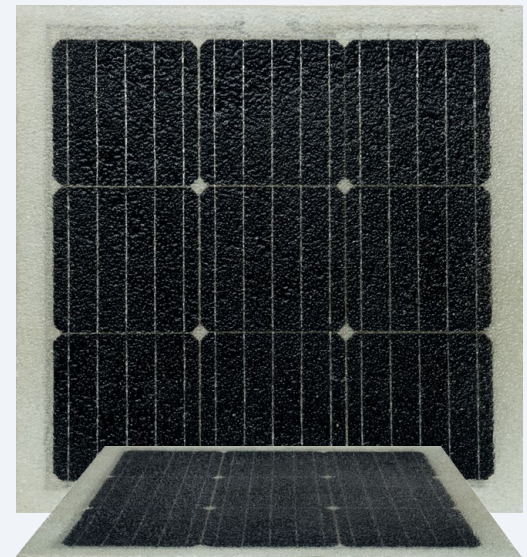
Solar Earth panels are revolutionary solar modules with applications including integration into sidewalks, trails, bike paths, driveways and parking lots. Supporting pedestrians, bicycles, and light-load, low-speed vehicles while generating power. Solar Earth panels maximize urban spaces to provide clean and resilient power.

Technical Data

ENVIROMENTAL	
Rated Water Submersion	30 days
Max Oil Submersion	12 hr
Friction Index (f-60): Wet/Dry	0.8/1.02
Expected Lifetime	10 years
Fire/PV safety	Tested UL61703 IE61215

PHYSICAL	
Max Static Load	5,000 kg [11,000lbs]
Max Point Pressure	1.3 MPa [190psi]
Max Speed	40 kmph [25mph]
Max Deflection	5 mm [.2"]
Ambient Range	-20°C [-4F] to 50°C [122F]
Temperature Range	-20°C [-4F] to 90°C [194F]
Weight	2.6 kg [5.7lbs]

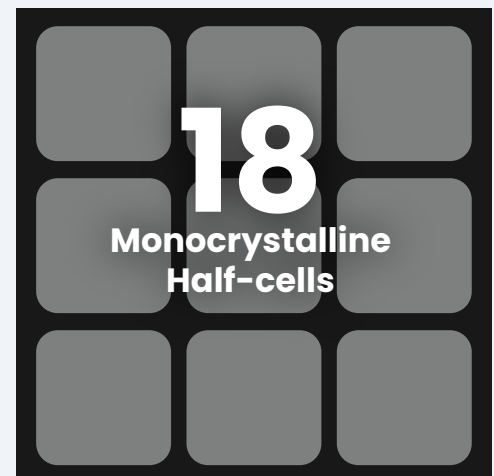
ELECTRICAL	
Power Per Area	143 W/sqm (13W/sqft)
Peak Power	~ 46 W
Power Tolerance	±3%
Temperature Coefficient	-0.38% / -0.21% F
Open Circuit Voltage	12.33 V
Short Circuit Current	4.72 A
MPP Voltage	10.26 V
MPP Current	4.52 A
Point Current Maximum System	1000V
Voltage Overload Protection	15 A
Current Bypass Diodes	1



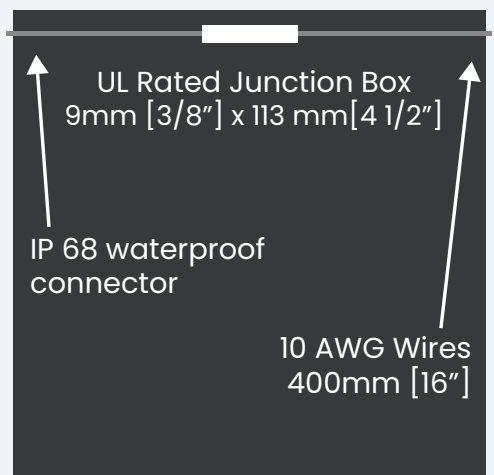
Proprietary anti-skid surface

← 570 [22.5"] ±2mm [.1"] →

TOP



BOTTOM



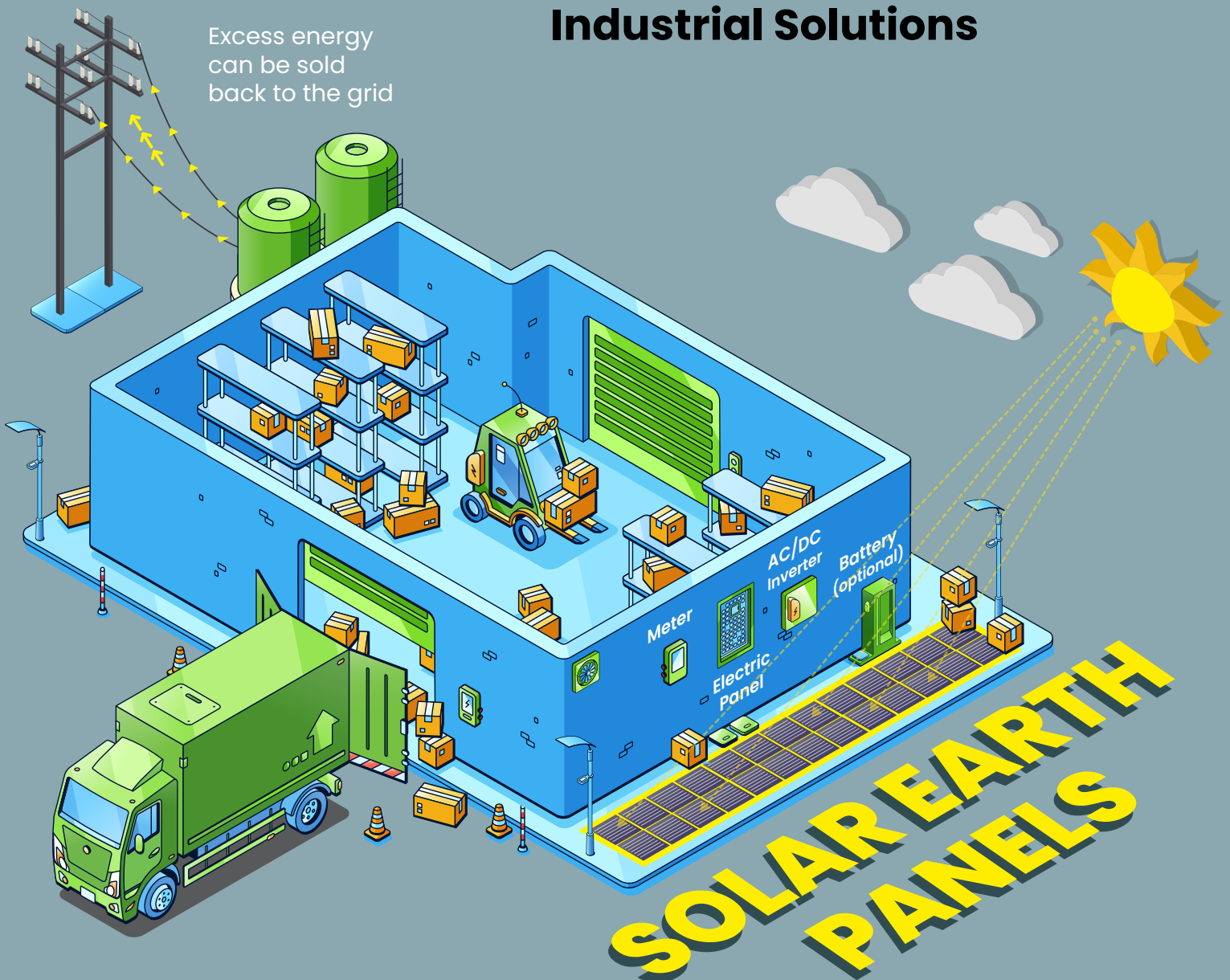
19mm [3/4"] ±1 [.04"]
6mm [1/4"] ±0.3 [.02"]
13mm [1/2"]

SIDE

Construction Solutions

CONDITION	Direct Mounting		Molded Base	
	Adhesive	Clamps	Paver	Polymer
Compacted Gravel/Earth			✓	✓
Pavement/Asphalt & Solid Surfaces	✓	✓	✓	✓
Decking, Roofs & Uneven Surfaces			✓	✓
Low Profile	✓	✓	*	*
Heavy Loads	Static	Low-Speed	Low-Speed	Static

Industrial Solutions



Turnkey Solutions

Solar Earth's expert personnel have been implementing pavement integrated PV power generation solutions since 2015. Our experienced staff can provide full turnkey solutions for all aspects of the pavement integrated PV power generation solution; from system design, material procurement, project management, and installation. Engineering support for the development of cutting-edge products is also available on request.

SOLAR EARTH PANELS

are suitable for use in:



**Light, low speed roads,
parking & driveways**



Bike Paths



Walkways



Marine Docks



Deck and Patios



Commercial Roofs



And many more locations



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