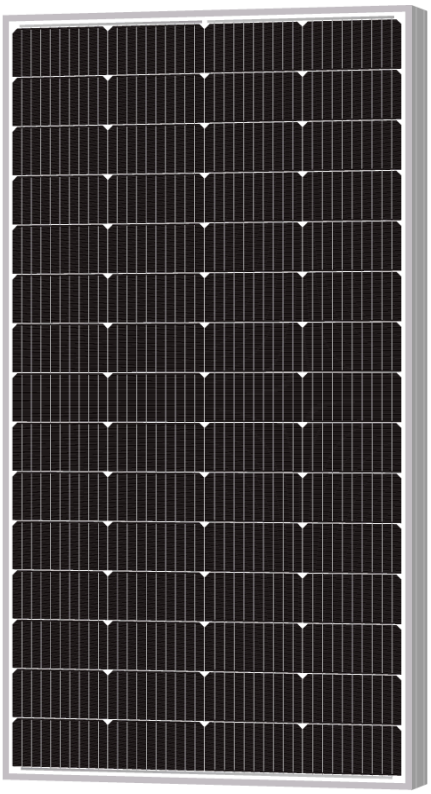


SOLAR & HYBRID POWER

MONOCRYSTALLINE SOLAR MODULE

High-efficiency monocrystalline module panels for the Portland Loo's rooftop solar and hybrid options. Each array is matched to the space available on the Loo roof.

Mono	**21.3%**	**5400 Pa**	**25 yr**
Monocrystalline silicon, Class A cells	Max efficiency, typical module	Snow load (2400 Pa wind uplift)	Linear power warranty

OVERVIEW

The Loo's solar and hybrid power options use monocrystalline module panels mounted on the roof. Monocrystalline cells convert more sunlight to power per square foot than other common panel types, which matters on a compact restroom roof.

Wattage and footprint can vary. We select modules from what our suppliers have available to make the best use of the space on the Loo roof top, so each order gets the most output that fits. The specifications on page 2 are for a typical 180 W module.

KEY FEATURES

01 **High efficiency**
Monocrystalline PERC half-cells with multi-busbar technology, up to 21.3% efficiency on the typical module.

02 **Built for the weather**
Rated for 5400 Pa snow load and 2400 Pa wind uplift, and tested against 1.375" hail.

03 **Sized to the roof**
Wattage and footprint are matched to the space available on your Loo.

04 **Long-term output**
A 25-year linear power warranty, with at least 80% of rated power at year 25 on the typical module.

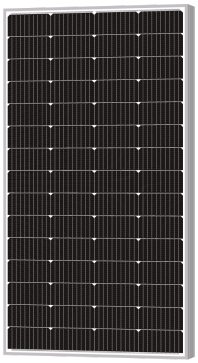
TYPICAL MODULE SPECIFICATIONS (180 W; actual modules may vary)

ITEM	DETAIL
Cells	Monocrystalline silicon, Class A; M6 PERC half-cells, 9 busbar
Power output	180 W (power tolerance 0 to +5 W)
Max power point	17.37 V (Vmp), 10.40 A (Imp)
Open circuit / short circuit	20.04 V (Voc), 10.97 A (Isc)
Efficiency	Up to 21.3%
Temperature coefficients	Power –0.5%/°C; Voc –80 mV/°C; Isc +0.065%/°C; NOCT 47 ±2°C
Dimensions	51.97" x 27.76" x 1.38" (1320 x 705 x 35 mm)
Weight	22.75 lb (10.32 kg)
Loads	5400 Pa positive (snow), 2400 Pa negative (wind); hail tested to 1.375"
Operating range	Below 0°F to 149°F
Wiring	Junction box with 35.43" (900 mm) 12 AWG leads
Warranty	25-year linear power; 2-year product

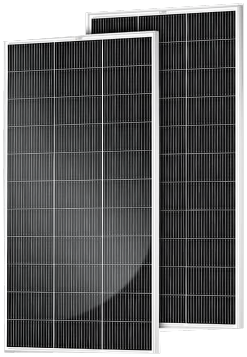
ORDERING OPTIONS

OPTION	STANDARD	AVAILABLE ON REQUEST
Module type	Monocrystalline module STD	—
Wattage / footprint	Matched to the Loo roof and supplier availability	Ask your parts solution rep

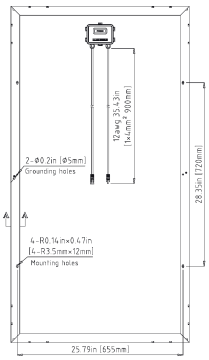
VIEWS



Front. Typical 180 W monocrystalline module.



Modules. Silver-framed monocrystalline panels.



Back. Junction box, leads, and grounding and mounting holes (typical module).

ORDERING TIP

Module wattage and size depend on supplier availability and the space on your Loo's roof. Tell your parts solution rep which Loo you have and your power needs, and we'll match the modules to fit.