

uM2 Solar Power Generator

The most efficient and powerful solar power generators in the world

The Arzon Solar uM2™ is a fully integrated, easy-to-install CPV solar power generator designed for robust and reliable solar power electricity generation.

The uM2 can be shipped anywhere in the world and offers more power per surface area than any other PV system on the market.

uM2 is powered by two Arzon Solar uModules™. uM2 installation is easy and can be completed by traditional solar EPCs or general contractors.

30%

Superior Efficiency

At 30%, the uM2 is the highest efficiency commercially available solar generator in the world

40%

Superior Cells

The reliable and proven 40% multi-junction solar cell is at the core of our high efficiency uModule

5.4 kW

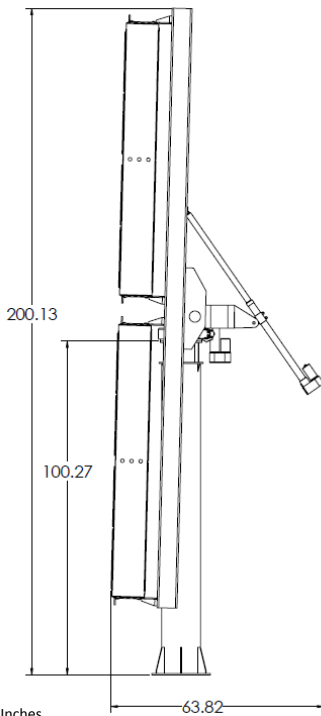
Superior Power

The uM2 packs 5.4 kW DC CSTC into an easy to install, fully integrated, dual axis tracking system

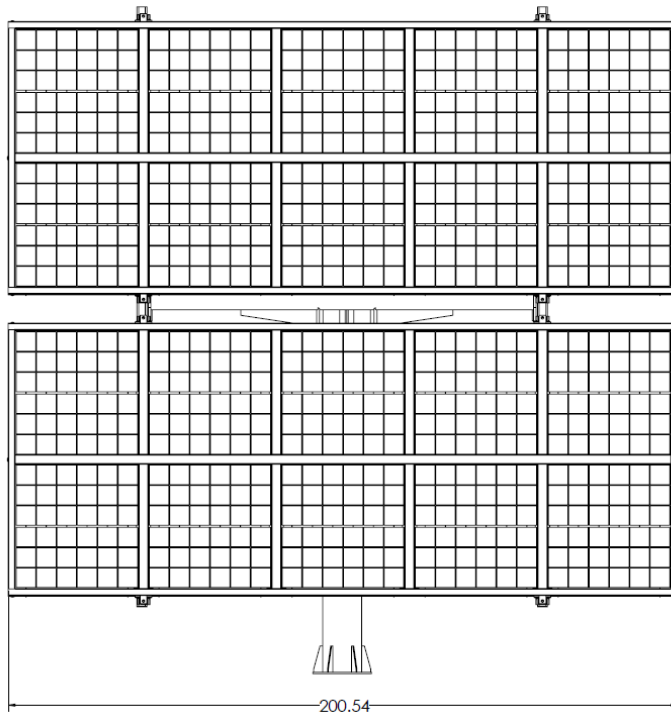
2,800 kWh/kW

Superior Energy

In high DNI locations, the uM2 can deliver upwards of 2,500 - 2,800 kWh AC / kW AC CSOC, resulting in incredible land energy density



Dimensions in Inches
Figure is 6' tall reference



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uM2 Electrical Specifications

Rated Power CSTC ¹	5.4 kW
Rated Power CSOC ²	4.6 kW
Module Efficiency ³	30%
Rated Voltage (Vmp CSOC)	475 VDC
Rated Current (Imp CSOC)	9.7 A
Open Circuit Voltage (Voc CSOC)	540 VDC
Short Circuit Current (Isc CSOC)	10.8 A
Temp Coefficient of Power	-0.14%/°C

uM2 Physical Specifications

Weight	2,200 lbs / 998 kg
Frontal Area	240 ft ² / 22.4 m ²
Outer Dimensions	200.5" x 200" x 64" 5.1m x 5.1m x 1.6m
Ground Interface	Buried or flanged pedestal
Service and Upgrade	Lens and Plates are removable & upgradable

Environmental Specifications

Max survival wind speed	90 mph / 40 m/s stowed
Max operating wind speed	40 mph / 18 m/s direct
Operating temp range	-4°F / -20°C to 122°F / 50°C
Survival temp range	-40°F / -40°C to 140°F / 60°C
Impact resistance	Hail 1.0" (2.5cm) at 90 mph (40 m/s)

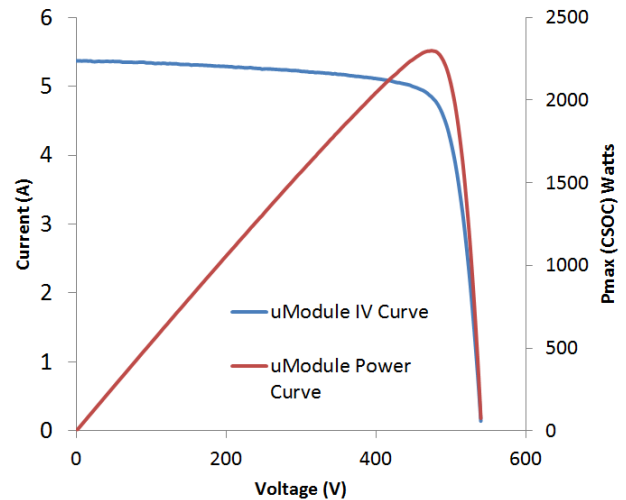
Transport and Packing Specifications

Shipment type and dunnage	Standard pallet with disposable support. Shipped via land, sea or railcar
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- 1- CSTC is 1000 W/m², 25 °C cell temperature
- 2- CSOC is 900 W/m², 20 °C ambient temperature, 2 m/s wind
- 3- CSOC Aperture efficiency
- 4- IEC testing currently in process

I-V Curve

IV Curve for 1x uModule. uM2 is 2x uModules



Warranty and Certifications

Workmanship	3 year limited product warranty
Performance	25 year limited power warranty
Certifications	IEC62108 ⁴

Other Information

