



SPECIFICATIONS

CoolPV is a PV-T panel assembly that consists of a Canadian Solar CS6K-295MS PV module that is OEM retrofitted by FAFCO with a FAFCO thermal collector system.

295W Module Characteristics (CS6K-295MS, PN: 09883)¹

Panel Area	17.6 ft ² (1.67m ²)
Panel Dimensions (HxWxD)	65 x 39 x 4.72in (1650 x 992 x 120 mm)
Weight	55.3 lbs (25.1 kg)
Roof load	3.2 psf (15.6 kg/m ²)
Fluid Capacity	0.75 gal (2.8L)
Fluid Connection Type	FAFCO® Proprietary
Electrical Connection Type	T4 Series

¹Electical Specifications are based on Canadian Solar Inc. UL1703/UL2703 Certification Ratings

Electrical Characteristics²

295W

Rated Electrical Output (Pmax)	295 Watts
Open Circuit Voltage (Voc)	39.5 V
Rated Voltage (Vmp)	32.3 V
Short Circuit Current (Isc)	9.75 A
Rated Current (Imp)	9.14 A
Temperature Coefficient - Pmax	-0.39 % /°K
Temperature Coefficient - Voc	-0.29 % /°K
Temperature Coefficient - Isc	0.05 % /°K
Electrical Efficiency	18.0%
System Voltage Max	1000 VDC
Capacity Tolerance	-0% / +5 % Wp
Cells, Number/Type	60 / Monocrystalline
NMOT	43±3 °C

²All performance data calculated at STC (Standard Test Conditions) 25°C, 1000 W / m², 1.5 AM

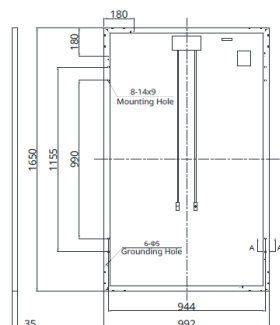
Thermal Characteristics³

Operating Pressure (<100°F)	20 psi (140 kPa)
Test Pressure	50 psi / 220psi (350 kpa/ 1500 kpa)
Recommended Flow Rate	1.5 gpm (5.7 lpm)
Delta T (at y intercept)	3.3°F (1.8°C)
Operating Temperature Range (typical)	60-100 F (15-38°C)
Stagnation Temperature	140 °F (58°C)

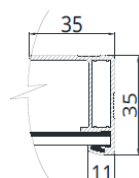
³All performance data calculated at STC (Standard Test Conditions) 25°C, 1000 W / m², 1.5 AM, Inlet Water of 20°C

Mechanical Characteristics

Rear View



Frame Cross Section A-A



Tested Design Loads

Two Rail System	50 psf downward 40 psf upward
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Certification / Compliance / Listing / Labeling

Electrical	UL1703 Sec. 25 - Bonding
Fire	UL1703 Sec. 31 - Class A
Mechanical Loading	UL2703 - Full Clamp Loading
Thermal (SRCC-OG100)	Cert #: 10002084
Product (ICC-SRCC)	Listing #: 16006