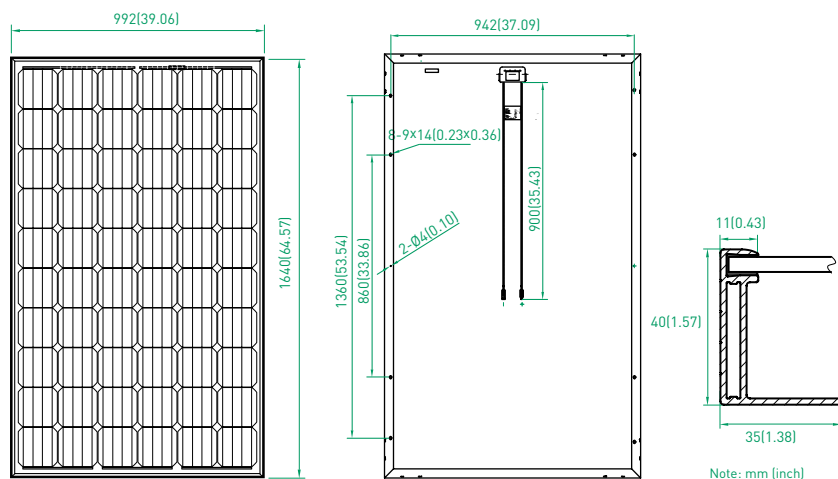


PREMIUM SOLAR MODULES 270-280W MONO



MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline 156mm x 156mm square, 6 × 10 pieces in series
Dimension	Length: 1640mm (64.57 inch)
	Width: 992mm (39.06 inch)
	Height: 40mm (1.57 inch)
Weight	19kg (41.9 lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) / 12AWG (UL), 900mm
Junction Box	IP 68 rated

ABSOLUTE MAXIMUM RATING

Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	15A
IEC Application Class (IEC61730)	A
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Maximum System Voltage	DC 1000V (IEC)
	DC 600V (UL) / 1000V (ETL)

ELECTRICAL TYPICAL VALUES^[1]

Model	Rated Power (P _{mpp})	Tolerance	Rated Current (I _{mpp})	Rated Voltage (V _{mpp})	Short Circuit Current (I _{sc})	Open Circuit Voltage (V _{oc})	Module Efficiency (%)
PS270M-20/U	270W	0~+5W	8.65A	31.2V	9.05A	38.3V	16.60
PS275M-20/U	275W	0~+5W	8.75A	31.4V	9.10A	38.4V	16.90
PS280M-20/U	280W	0~+5W	8.86A	31.6V	9.15A	38.5V	17.20

WEAK LIGHT PERFORMANCE

Intensity [W/m ²]	I _{mpp}	V _{mpp}
1000	1	1
800	0.8	0.996
600	0.6	0.99
400	0.4	0.983
200	0.2	0.952
100	0.1	0.921

TEMPERATURE CHARACTERISTICS

NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
Voltage Temperature Coefficient	-0.35%/k
Current Temperature Coefficient	+0.07%/k
Power Temperature Coefficient	-0.45%/k

PACKING CONFIGURATION

Container	40' HQ	20' GP
Pieces per container	728	264

1. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m², Air mass 1.5 Spectrum, cell temperature of 25°C.