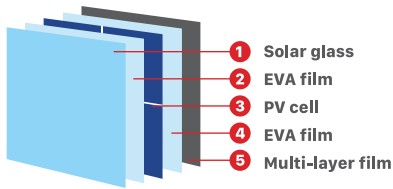
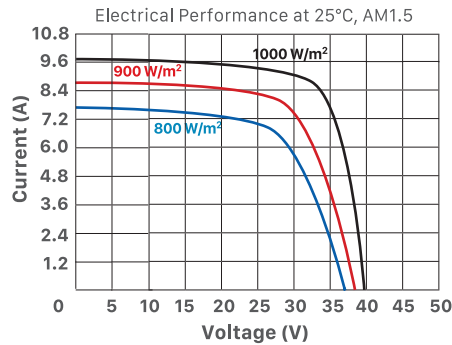


# 156 SERIES MONOCRYSTALLINE

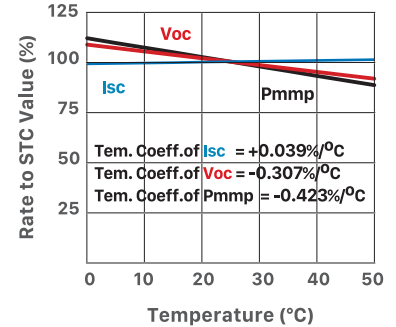
SOLAR MODULE: 275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W, 310 W, 315 W



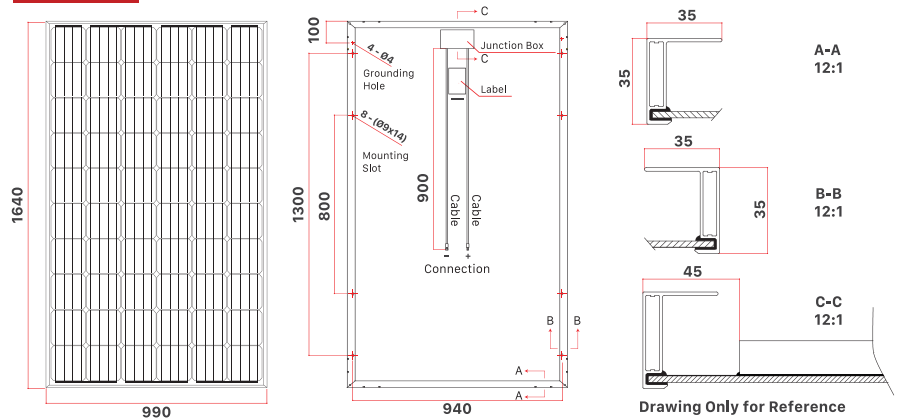
## PERFORMANCE



Temperature Dependence of Isc, Voc & Pm at 1000 W/m², AM1.5



## STRUCTURE



ELECTRICAL CHARACTERISTICS STC	IR275M-60	IR280M-60	IR285M-60	IR290M-60	IR295M-60	IR300M-60	IR305M-60	IR310M-60	IR315M-60
Maximum Power (Pmax)	275 W	280 W	285 W	290 W	295 W	300 W	305 W	310 W	315 W
Power Tolerance	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%
Module Efficiency	16.9%	17.3%	17.6%	17.9%	18.2%	18.5%	18.8%	19.1%	19.4%
Maximum Power Current (Imp)	8.72 A	8.83 A	8.89 A	9.01 A	9.14 A	9.26 A	9.33 A	9.38 A	9.45 A
Maximum Power Voltage (Vmp)	31.54 V	31.72 V	32.06 V	32.20 V	32.29 V	32.40 V	32.70 V	33.05 V	33.43 V
Short Circuit Current (Isc)	9.24 A	9.36 A	9.42 A	9.52 A	9.68 A	9.80 A	9.88 A	9.92 A	9.99 A
Open Circuit Voltage (Voc)	38.89 V	39.02 V	39.75 V	39.85 V	39.95 V	40.08 V	40.55 V	40.71 V	41.07 V

Values at Standard Test Conditions (STC: Air Mass AM 1.5, Irradiance 1000 W/m², Cell Temperature 25°C)

ELECTRICAL CHARACTERISTICS NOCT	IR275M-60	IR280M-60	IR285M-60	IR290M-60	IR295M-60	IR300M-60	IR305M-60	IR310M-60	IR315M-60
Maximum Power (Pmax)	201.00 W	204.00 W	208.00 W	212.00 W	215.00 W	219.00 W	223.00 W	226.00 W	230.00 W
Maximum Power Current (Imp)	6.92 A	6.96 A	7.06 A	7.16 A	7.24 A	7.34 A	7.38 A	7.41 A	7.46 A
Maximum Power Voltage (Vmp)	29.07 V	29.32 V	29.48 V	29.61 V	29.71 V	29.85 V	30.22 V	30.50 V	30.83 V
Short Circuit Current (Isc)	7.41 A	7.49 A	7.54 A	7.62 A	7.73 A	7.82 A	7.90 A	7.92 A	7.98 A
Open Circuit Voltage (Voc)	36.04 V	36.29 V	36.97 V	37.25 V	36.99 V	37.20 V	37.64 V	37.78 V	38.01 V

Values at Nominal Operating Cell Temperature (NOCT: Wind Speed 1m/s, Irradiance 800 W/m², Cell Temperature 45°C, Ambient Temperature 20°C)

## MECHANICAL CHARACTERISTICS

Cell Type	156.75 x 156.75 mm Monocrystalline, 60 (6x10) pcs in series
Solar Glass	High Transmission, Low Iron, Tempered Glass with Anti Reflecting Coating
Frame	Anodized Aluminum Alloy type 6063 - T5
Junction Box	Rated current ≥ 15 A, IP ≥ 67, TUV & UL, 3 diodes
Dimension	1640 x 990 x 35 mm
Output Cable	4 mm² (EU)/12 AWG (US), 900 mm
Weight	19 kg
Installation hole Location	See Drawing Above

## PACKING INFORMATION

Container	20' GP	40' GP	40' HQ
Pallets per Container	12	28	28
Pieces per Container	360	840	896

## MAXIMUM RATINGS

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC) / 1500 VDC (UL)
Maximum Series Fuse Rating	20 A (IEC) / 20 A (UL)
Application Class	Class A