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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**IREX Energy Joint Stock Company**

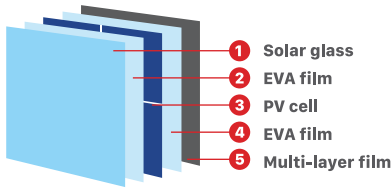
**IR265P-305P-60**

**IR295P-60**

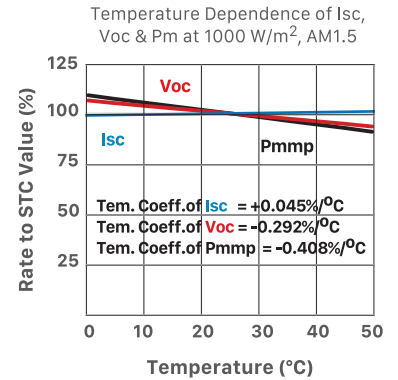
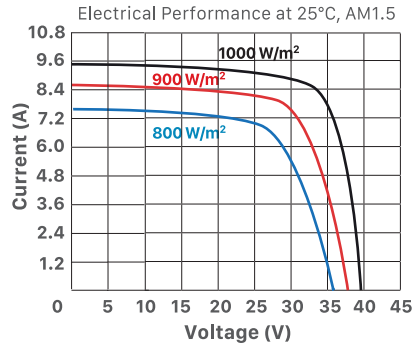
Also available on the web at  
[EnergyPal.com/irex-energy-joint-stock-company-solar-panels/ir295p-60](http://EnergyPal.com/irex-energy-joint-stock-company-solar-panels/ir295p-60)

# 156 SERIES POLYCRYSTALLINE

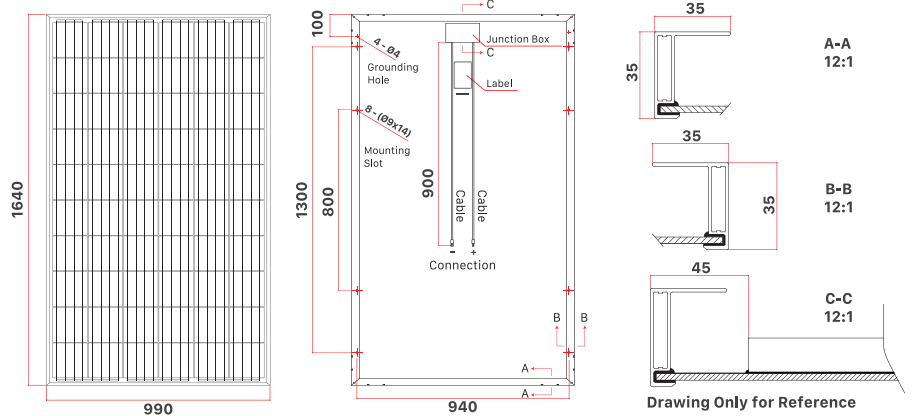
SOLAR MODULE: 265 W, 270 W, 275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W



## PERFORMANCE



## STRUCTURE



ELECTRICAL CHARACTERISTICS STC	IR265P-60	IR270P-60	IR275P-60	IR280P-60	IR285P-60	IR290P-60	IR295P-60	IR300P-60	IR305P-60
Maximum Power (Pmax)	265 W	270 W	275 W	280 W	285 W	290 W	295 W	300 W	305 W
Power Tolerance	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%
Module Efficiency	16.3%	16.6%	16.9%	17.2%	17.6%	17.9%	18.2%	18.5%	18.8%
Maximum Power Current (Imp)	8.49 A	8.61 A	8.73 A	8.86 A	8.98 A	9.09 A	9.18 A	9.28 A	9.33 A
Maximum Power Voltage (Vmp)	31.23 V	31.36 V	31.50 V	31.61 V	31.75 V	31.91 V	32.14 V	32.33 V	32.69 V
Short Circuit Current (Isc)	9.00 A	9.12 A	9.26 A	9.40 A	9.51 A	9.62 A	9.71 A	9.82 A	9.90 A
Open Circuit Voltage (Voc)	38.73 V	38.89 V	39.03 V	39.15 V	39.29 V	39.58 V	39.78 V	39.97 V	40.45 V

Values at Standard Test Conditions (STC: Air Mass AM 1.5, Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C)

ELECTRICAL CHARACTERISTICS NOCT	IR265P-60	IR270P-60	IR275P-60	IR280P-60	IR285P-60	IR290P-60	IR295P-60	IR300P-60	IR305P-60
Maximum Power (Pmax)	191.00 W	194.00 W	198.00 W	204.00 W	208.00 W	212.00 W	215.00 W	219.00 W	223.00 W
Maximum Power Current (Imp)	6.71 A	6.76 A	6.86 A	7.03 A	7.11 A	7.22 A	7.29 A	7.38 A	7.46 A
Maximum Power Voltage (Vmp)	28.47 V	28.71 V	28.87 V	29.02 V	29.26 V	29.37 V	29.51 V	29.68 V	29.90 V
Short Circuit Current (Isc)	7.20 A	7.26 A	7.36 A	7.51 A	7.60 A	7.72 A	7.78 A	7.86 A	7.94 A
Open Circuit Voltage (Voc)	35.63 V	35.93 V	36.06 V	36.24 V	36.38 V	36.58 V	36.75 V	36.92 V	37.28 V

Values at Nominal Operating Cell Temperature

(NOCT: Wind Speed 1m/s, Irradiance 800 W/m<sup>2</sup>, Cell Temperature 45°C, Ambient Temperature 20°C)

## MECHANICAL CHARACTERISTICS

Cell Type	156.75 x 156.75 mm Polycrystalline, 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 mm <sup>2</sup> (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