



SOLAR MODULE 280 W



EFFICIENCY

High Module Conversion Efficiencies



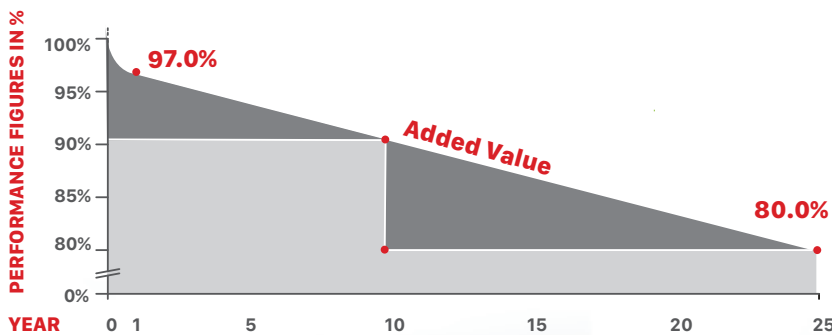
EASY & QUICK

Easy Installation and Handling



MECHANICAL LOAD

Heavy snow load up to 5400 Pa, Wind load up to 2400 Pa



CERTIFICATES



PHOTOVOLTAIC MODULE OVER 600 VOLTS
E496023



Management System
ISO 9001:2015

www.tuv.com
ID 9105011675

UL 1703: Standard for Flat - Plate Photovoltaic Modules and Panels
IEC 61701: Salt mist corrosion testing of PV Modules

IREX ENERGY JOINT STOCK COMPANY

Add: No 47, Le Van Thinh Street, Quarter 5, Binh Trung Dong Ward, District 2, HCMC, Vietnam
Tel: (+84.28) 7300 1559 | **Fax:** (+84.28) 7300 6760 | **Email:** info@irex.vn | **Website:** irex.vn
Factory: Road No. 1A, Phu My 1 Industrial Zone, Phu My Ward, Phu My Town, Ba Ria - Vung Tau Province, Vietnam
Tel: (+84.254) 392 3594 | **Fax:** (+84.254) 392 3594

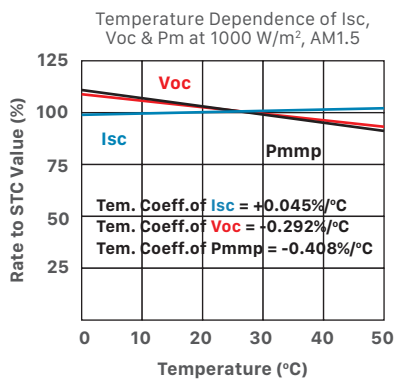
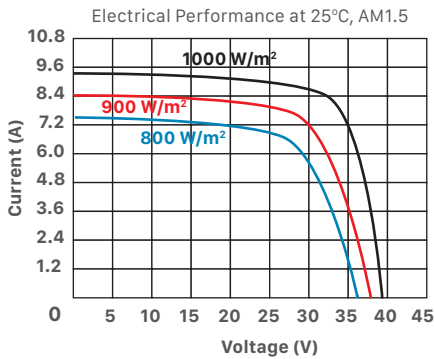


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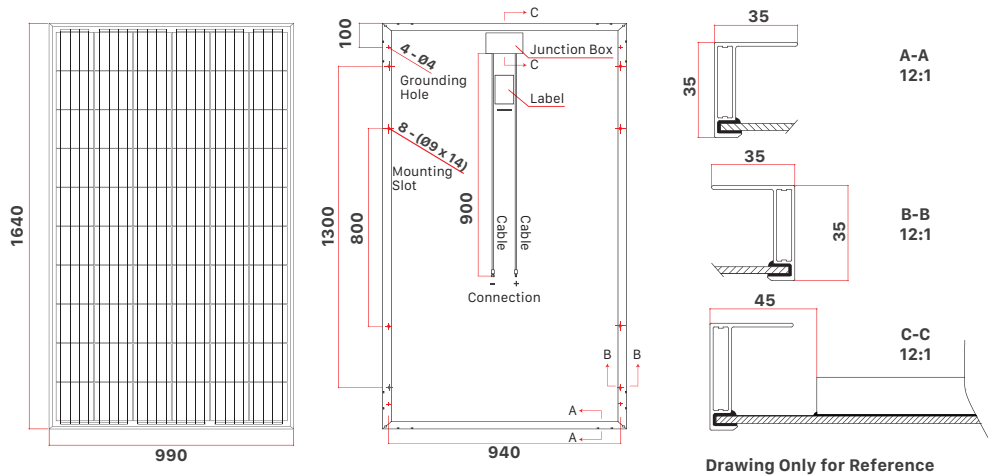
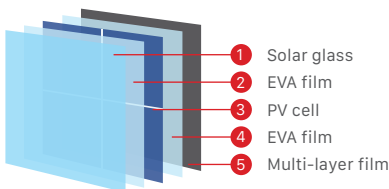
156 SERIES - 60 CELLS POLYCRYSTALLINE



PERFORMANCE



STRUCTURE



Drawing Only for Reference

ELECTRICAL CHARACTERISTICS STC

IR280P-60

Maximum Power (Pmax)	280 W
Power Tolerance	0 ~ 3%
Module Efficiency	17.2 %
Maximum Power Current (Imp)	8.86 A
Maximum Power Voltage (Vmp)	31.61 V
Short Circuit Current (Isc)	9.40 A
Open Circuit Voltage (Voc)	39.15 V
Values at Standard Test Conditions (STC: Air Mass AM 1.5, Irradiance 1000 W/m², Cell Temperature 25°C)	

ELECTRICAL CHARACTERISTICS NOCT

IR280P-60

Maximum Power (Pmax)	204.00 W
Maximum Power Current (Imp)	7.03 A
Maximum Power Voltage (Vmp)	29.02 V
Short Circuit Current (Isc)	7.51 A
Open Circuit Voltage (Voc)	36.24 V
Values at Nominal Operating Cell Temperature (NOCT: Wind speed 1 m/s, Irradiance 800 W/m², 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-Reflective Coating
Frame	Anodized Aluminum Alloy type 6063 - T5
Junction Box	Rated current ≥ 15A, 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

WORKING CONDITION

Operating Temperature	- 40°C ~ + 85°C
Maximum System Voltage	1500 VDC (IEC) / 1500 VDC (UL)
Maximum Series Fuse Rating	20 A (IEC) / 20 A (UL)
NOCT	45 ± 2
Application Class	Class A