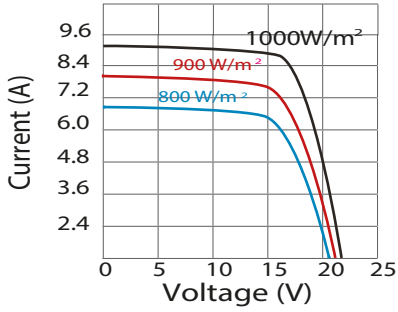


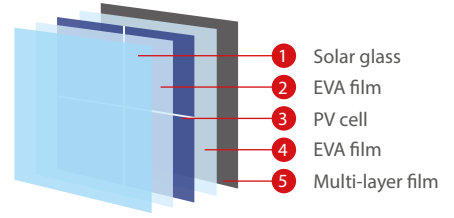
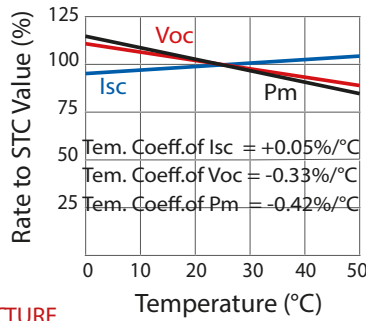
# 156 SERIES POLYCRYSTALLINE SOLAR MODULE: 130 W, 135W, 140 W, 145 W, 150 W, 155 W, 160 W, 165 W

## PERFORMANCE

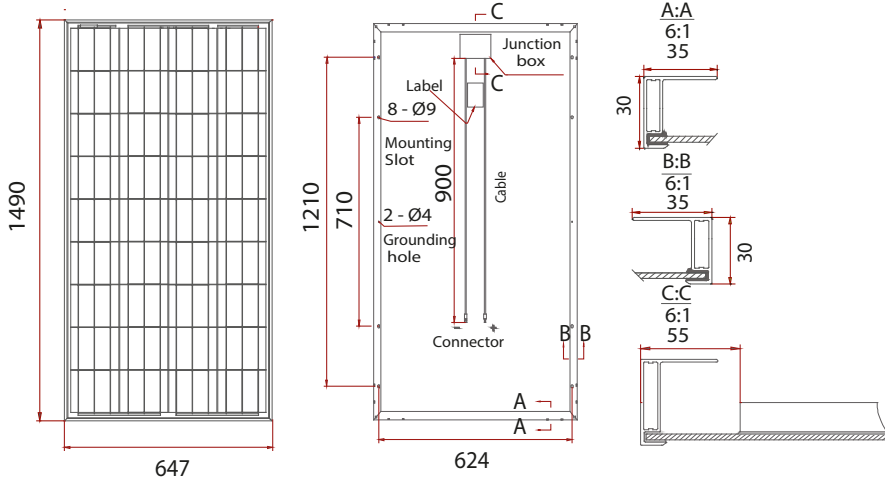
Electrical Performance at 25°C, AM1.5



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



## STRUCTURE



Drawing Only for Reference

ELECTRICAL CHARACTERISTICS STC	IR130P-36	IR135P-36	IR140P-36	IR145P-36	IR150P-36	IR155P-36	IR160P-36	IR165P-36
Maximum Power (Pmax)	130 W	135 W	140 W	145 W	150 W	155 W	160 W	165 W
Power Tolerance	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%	0 ~ 3%
Module Efficiency	13.0%	13.5%	14.0%	14.4%	14.9%	15.4%	15.9%	16.4%
Maximum Power Current (Imp)	7.44 A	7.63 A	7.83 A	8.08 A	8.24 A	8.32 A	8.42 A	8.60 A
Maximum Power Voltage (Vmp)	17.48 V	17.70 V	17.89 V	17.95 V	18.21 V	18.64 V	19.01 V	19.19 V
Short Circuit Current (Isc)	7.87 A	8.10 A	8.30 A	8.56 A	8.73 A	8.82 A	8.93 A	9.12 A
Open Circuit Voltage (Voc)	21.59 V	21.88 V	22.18 V	22.26 V	22.59 V	23.15 V	23.59 V	23.80 V
Values at Standard Test Conditions (STC: Air Mass AM 1.5, Irradiance 1000W/m², Cell Temperature 25°C)								

ELECTRICAL CHARACTERISTICS NOCT	IR130P-36	IR135P-36	IR140P-36	IR145P-36	IR150P-36	IR155P-36	IR160P-36	IR165P-36
Maximum Power (Pmax)	95 W	99 W	101 W	104 W	108 W	112 W	115 W	120 W
Maximum Power Current (Imp)	5.91 A	6.08 A	6.16 A	6.33 A	6.46 A	6.54 A	6.61 A	6.77 A
Maximum Power Voltage (Vmp)	16.08 V	16.29 V	16.41 V	16.44 V	16.74 V	17.14 V	17.40 V	17.88 V
Short Circuit Current (Isc)	6.29 A	6.48 A	6.64 A	6.84 A	6.98 A	7.05 A	7.14 A	7.30 A
Open Circuit Voltage (Voc)	20.08 V	20.35 V	20.60 V	20.70 V	21.00 V	21.51 V	21.92 V	22.13 V
Values at Nominal Operating Cell Temperature (NOCT: Wind Speed 1m/s, Irradiance 800W/m², Cell Temperature 45°C, Ambient Temperature 20°C)								

## MECHANICAL CHARACTERISTICS

Cell Type	156 x 156 mm Polycrystalline, 36(4x9) pcs in series
Glass solar	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy type 6063 - T5
Junction Box	Rated current ≥ 12 A, IP ≥ 65, TUV & UL
Dimension	1490 x 674 x 30 mm
Output Cable	4 mm² (EU)/12 AWG (US), 900 mm
Weight	11 Kg
Installation hole Location	See Drawing Above

## PACKING INFORMATION

Container	20' GP	40' GP	40' HQ
Pallets per Container	14	30	45
Pieces per Container	476	1020	1080

## MAXIMUM RATINGS

Operating Temperature	- 40°C ~ +85°C
Maximum System Voltage	1000 VDC (EU) / 600 VDC (US)
Maximum Series Fuse Rating	20 A (EU) / 15 A (US)