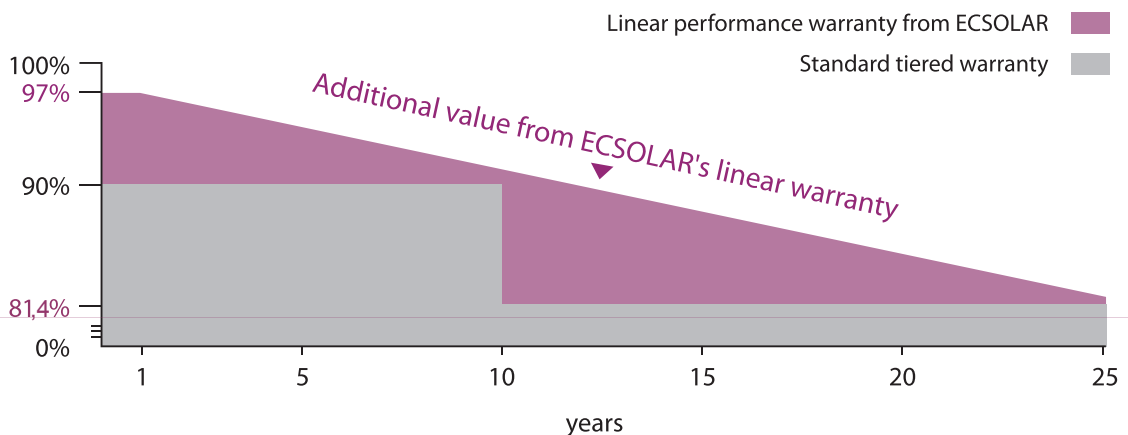


# Monocrystalline PV Modules

## ECS-250/255/260/265/270/275M60 All-black

- Excellent module conversion efficiency due to high-end production technology
- Mechanical Load Capability of
  - up to 5400 Pa snow load
  - up to 2400 Pa wind load
- Suitable for extreme climate conditions
- Easy installation and maintenance
- 12 years warranty on material and workmanship  
25 year warranty on linear power output
- ISO9001, OHSAS18001, ISO14001 Certified
- Conforms with IEC (61215,61730),  
CE, INMETRO, TÜV, MCS, CEC



# Monocrystalline PV Modules

## Electrical Characteristics STC\*

Module Type	ECS-250M60	ECS-255M60	ECS-260M60	ECS-265M60	ECS-270M60	ECS-275M60
Maximum Power-Pmax	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Maximum Power Voltage-Vmp	30.3 V	30.5 V	30.7 V	30.9 V	31.1 V	31.3 V
Maximum Power Current-Imp	8.25 A	8.37 A	8.47 A	8.58 A	8.68 A	8.79 A
Open Circuit Voltage-Voc	37.5 V	37.6 V	37.7 V	37.8 V	37.9 V	38.0 V
Short Circuit Current-Isc	8.56 A	8.68 A	8.8 A	8.9 A	9.01 A	9.12 A
Module Efficiency- $\eta_m$	15.4 %	15.7 %	16.0 %	16.3 %	16.6 %	16.9 %
Power Tolerance	0/+3 %	0/+3 %	0/+3 %	0/+3 %	0/+3 %	0/+3 %

\*Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C)

## Mechanical Characteristics

Cell Type	Monocrystalline 156x156 mm (6 inches)
Amount of Cells	60 (6x10)
Dimensions	1640x992x40 mm (64.57x39.06x1.57 inches)
Weight	20.0 kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Protection Class of Junction Box	IP65
Bypass Diodes	3
Maximum Reverse Current	15A
Output Cable	4 mm <sup>2</sup> /1000 mm
Frame	Anodized Aluminum Alloy

## Temperature Coefficients

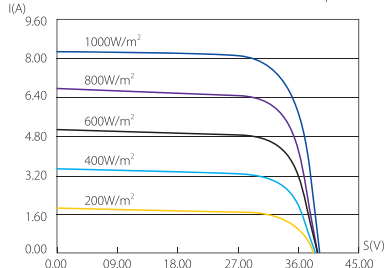
NOCT*	45±2°C
Temperature Coefficient of Pmax	-0.44 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient Isc	0.055 %/°C

\*Values at Normal Operating Cell Temperature, Irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## Maximum Ratings

Operating Temperature	-40°C bis +80°C
Maximale Systemspannung	1000V DC
Maximum Series Fuse Rating	16A

I-V curve under different irradiation Cell Temp:25°C



I-V curve under different temperature

