

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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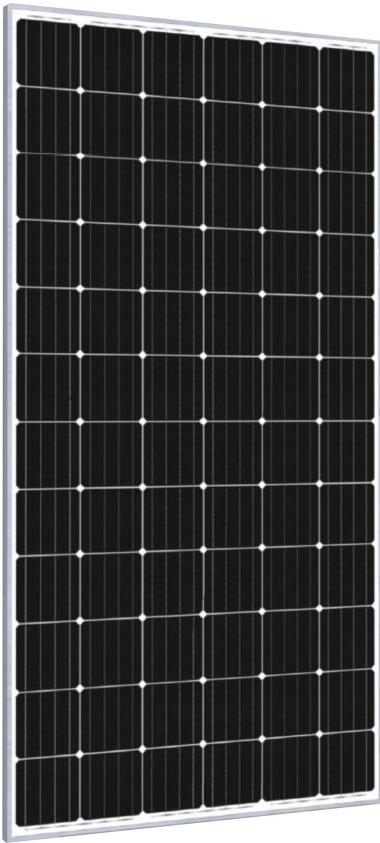
# **EnergyPal**

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

**Sunceco  
SEM 325-340  
SEM 340**

Also available on the web at  
[EnergyPal.com/sunceco-solar-panels/sem-340](http://EnergyPal.com/sunceco-solar-panels/sem-340)

# 325 W – 340 W Mono-crystalline Solar Module



- Premium series: High reliability of power output
- PV glass design improves oblique irradiance performance and enhances module yield in low-light and medium-angle-light condition
- Junction box and by-pass diodes guarantee the modules free of overheating and “hot spot effect”
- Strong anodized aluminum alloy frame
- Certified by TÜV to withstand up to 2400 Pa wind load and up to 5400 Pa snow load
- Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting systems
- Special PV Module Insurances by world leading insurance company guarantees the benefit to PV investors and PV module users

## Certificates



## Warranty

10 Years: Manufacturing Warranty

12 Years Warranty: 90% Power Output

25 Years Warranty: 80% Power Output

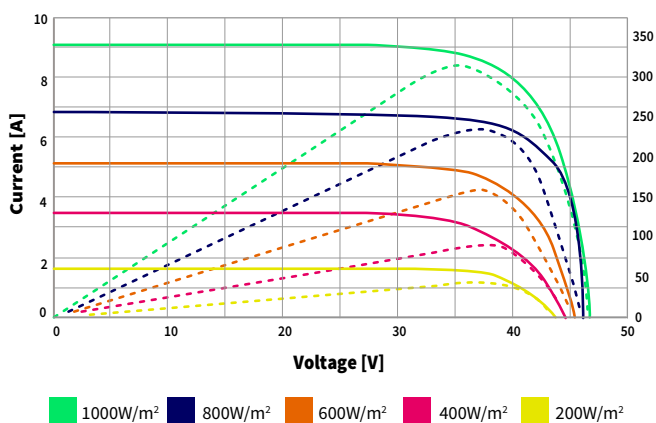
## Mechanical Characteristics

Cell type	Mono-crystalline
Cell Dimensions	156.75 × 156.75 mm
Cell Arrangement	72 (6 × 12)
Weight	22 kg
Module Dimensions	1960 × 992 × 40 mm
Glass	3.2 mm, high transmission, tempered
Connector	MC4 compatible
Cable Length	1200 mm
Cable Cross-section Size	4 mm <sup>2</sup>
No. of Bypass Diodes	3/6

# Electrical Characteristics

SOLAR CELLS		MONO-CRYSTALLINE 156.75 × 156.75MM 72 PCS. (6×12) – 5 BUS BARS			
Model	SEM 325	SEM 330	SEM 335	SEM 340	
<b>Performance at Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, 25°C, AM 1.5, positive power tolerance 0/+3 %</b>					
Maximum Power (Pmax)	325 Wp	330 Wp	335 Wp	340 Wp	
Operating Voltage (Vmpp)	37.5 V	37.9 V	38.2 V	38.6 V	
Operating Current (Impp)	8.67 A	8.72 A	8.77 A	8.82 A	
Open-Circuit Voltage (Voc)	46.3 V	46.5 V	46.7 V	47.0 V	
Short-Circuit Current (Isc)	9.18 A	9.24 A	9.30 A	9.37 A	
Module Efficiency	16.7 %	17.0 %	17.2 %	17.5 %	
<b>Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m<sup>2</sup>, 20°C, AM 1.5, wind speed 1m/s</b>					
Maximum Power (Pmax)	240 Wp	244 Wp	248 Wp	251 Wp	
Operating Voltage (Vmpp)	34.8 V	35.1 V	35.3 V	35.5 V	
Operating Current (Impp)	6.92 A	6.97 A	7.03 A	7.09 A	
Open-Circuit Voltage (Voc)	42.9 V	43.1 V	43.2 V	43.5 V	
Short-Circuit Current (Isc)	7.42 A	7.47 A	7.51 A	7.57 A	
<b>Temperature Coefficient</b>					
Temperature Coefficient at Pmax	- 0.39 % / °C				
Temperature Coefficient at Voc	- 0.30 % / °C				
Temperature Coefficient at Isc	+ 0.05 % / °C				
Nominal Operating Cell Temperature	45 ± 2 °C				
<b>Operating conditions</b>					
Maximum System Voltage	DC1000 V (IEC)				
Operating Temperature	-40 °C to 85 °C				
Maximum Series Fuse	15 A				
Static Loading	5400 Pa				
Conductivity at Ground	≤ 0.1 Ω				
Resistance	≥ 100 MΩ				
Safety Class	II				

I-V Curves at different irradiance



I-V Curves at different temperature

