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# **EnergyPal**

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

**Sunceco**  
**SEP 330-340 MB**  
**SEP 340 MB**

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

# 330 W – 340 W Poly-crystalline Solar Module



## Premium MB Series

- 12 Bus-Bar grid pattern technology: reduce 3% of cell shading area
- Beautiful appearance, ideal for applications that require architectural aesthetics

## Enhanced Reliability and Power Output

- Enhanced module efficiency up to 17.5%
- Higher power output with lower LCOE
- Lower Rs
- Concentration effect of round photovoltaic solder trip
- Enhanced anti-micro-cracking performance with balanced interior stress
- Significantly lowers the risk of hot spot by lowering module temperature in shading

## Robust Design

- 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

## Certificates



## Mechanical Characteristics

Cell type	Poly-crystalline
Cell Dimensions	156.75 × 156.75 mm, multi-busbar
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

## Warranty

10 Years: Manufacturing Warranty

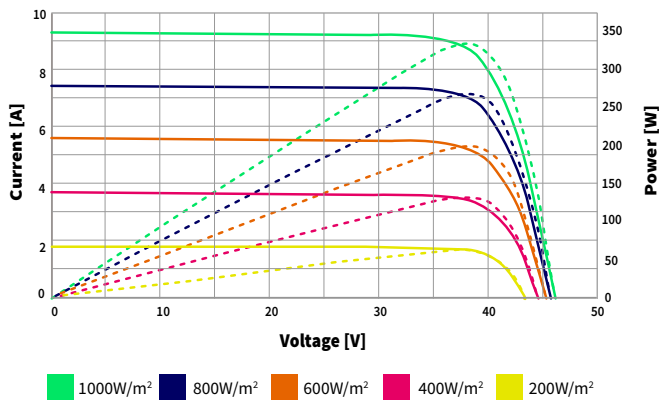
12 Years Warranty: 90% Power Output

25 Years Warranty: 80% Power Output

# Electrical Characteristics

SOLAR CELLS		POLY-CRYSTALLINE 156.75 × 156.75MM 72 PCS. (6×12) – 12 BUS BARS		
Model	SEP 330 MB	SEP 335 MB	SEP 340 MB	
Performance at Standard Test Conditions (STC): 1000 W/m <sup>2</sup> , 25°C, AM 1.5, positive power tolerance 0/+3 %				
Maximum Power (Pmax)	330 Wp	335 Wp	340 Wp	
Operating Voltage (Vmpp)	37.7 V	38.0 V	38.3 V	
Operating Current (Impp)	8.76 A	8.82 A	8.89 A	
Open-Circuit Voltage (Voc)	49.5 V	46.2 V	46.4 V	
Short-Circuit Current (Isc)	9.27 A	9.34 A	9.40 A	
Module Efficiency	17.0 %	17.2 %	17.5 %	
Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m <sup>2</sup> , 20°C, AM 1.5, wind speed 1m/s				
Maximum Power (Pmax)	243 Wp	247 Wp	251 Wp	
Operating Voltage (Vmpp)	34.6 V	34.9 V	35.1 V	
Operating Current (Impp)	7.04 A	7.09 A	7.15 A	
Open-Circuit Voltage (Voc)	42.3 V	42.6 V	42.8 V	
Short-Circuit Current (Isc)	7.51 A	7.56 A	7.61 A	
<b>Temperature Coefficient</b>				
Temperature Coefficient at Pmax	- 0.40 % / °C			
Temperature Coefficient at Voc	- 0.31 % / °C			
Temperature Coefficient at Isc	+ 0.06 % / °C			
Nominal Operating Cell Temperature	45 ± 2 °C			
<b>Operating conditions</b>				
Maximum System Voltage	DC1000 V (IEC) / DC1500 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

