

MEMC



MEMC SILVANTIS™ M330 MODULE

MEMC is a recognized authority on silicon technology and manufacturing processes developed through more than 50 years of experience. With our vertically-integrated business model, MEMC delivers best-in-class solar modules by continuously leveraging new technology and manufacturing techniques that maximize efficiency, minimize cost, and extend product lifetime.

Our Silvantis™ solar modules address our core strategy to deliver high power energy solutions at the lowest cost per watt.

MEMC Silvantis solar module family continues our tradition of excellence by delivering the highest levels of performance and with over 40 locations worldwide, MEMC is dedicated to providing local, responsive customer service.



HIGH EFFICIENCY – 3 BUSBARS

SILVANTIS M330 modules are built with proprietary Solaicx® p-type CCz process with uniform resistivity and maximum efficiency.



QUALITY

Manufactured in automated, state-of-the-art facilities certified to ISO9001 and ISO14001 for highest industry standards.



1000 V UL

RELIABLE AND ROBUST DESIGN

1000 V UL by CSA, high-quality materials, ARC glass, and high-load capability are part of each module.

KEY FEATURES

- Solaicx CCz and other industry leading p-type Mono-crystalline wafer with high carrier lifetime that enables solar cells to operate at peak efficiency
- Advanced Mono-crystalline cells for higher conversion efficiency
- Textured glass with Anti-Reflective Coating (ARC) for superior energy production
- Positive power tolerance provide increased power output
- Withstands loads up to 5400 Pa as tested to IEC standards
- Non-corroding anodized aluminum frame for ruggedness
- Modules with a range of power output available
- High PID Resistance
- Local manufacturing in Canada & Europe

MODULE FAMILY

SILVANTIS SERIES: MEMC-M305ByC, MEMC-M310ByC, MEMC-M315ByC, MEMC-M320ByC, MEMC-M325ByC, MEMC-M330ByC

QUALITY & SAFETY

- IEC61215 certified by TÜV SÜD to ensure long-term operation in a variety of climates
- IEC61730 certified by TÜV SÜD to ensure electrical safety
- Stringent outgoing quality acceptance criteria benchmarked to industry standards
- UL1703 (1000 V) listed by CSA for Canada and USA
- CE marked and CEC listed

LINEAR WARRANTY INFORMATION

- 10-year limited warranty for materials and workmanship
- 25-year linear power warranty with coverage for power loss greater than 3.5% in the first year and 0.7% degradation per year thereafter
- Backed by MEMC



For more information about SunEdison SILVANTIS™ Modules, please visit www.sunedison.com

M330 SOLAR MODULE DIMENSIONS mm[inch]

Module Dimensions		Cable Length
A – 990 [39.0]	D – 30 [1.2]	H – 1,000 [39.4]
B – 1,976 [77.8]	E – 22 [0.9]	*H – 1,300 [51.2]
C – 50 [2.0]		
Mounting Hole Spacing		
F – 950 [37.4]	G – 1,188 [46.8]	

* Option available upon request, please contact your local sales representative for more information

PHYSICAL PARAMETERS

Module Dimensions (mm)	1,976 x 990 x 50
Module Weight (kg)	22
Cell-Type	SolaiCX CCz Mono-crystalline
Number of Cells	72
Frame Material	Anodized Aluminum
Glass (mm)	3.2 Tempered ARC glass

TEMPERATURE COEFFICIENTS AND PARAMETERS*

Nominal Operating Cell Temperature (NOCT) (°C)	46.0 ± 2
Temperature Coefficient of P _{max} (%/°C)	-0.45
Temperature Coefficient of V _{oc} (%/°C)	-0.34
Temperature Coefficient of I _{sc} (%/°C)	0.05
Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1000 (UL & IEC)
Limiting Reverse Current (A)	9.10
Maximum Series Fuse Rating (A)	15
Power Range (W)	-0/+5

Temperature coefficients may vary by ±10%

ELECTRICAL CHARACTERISTICS*

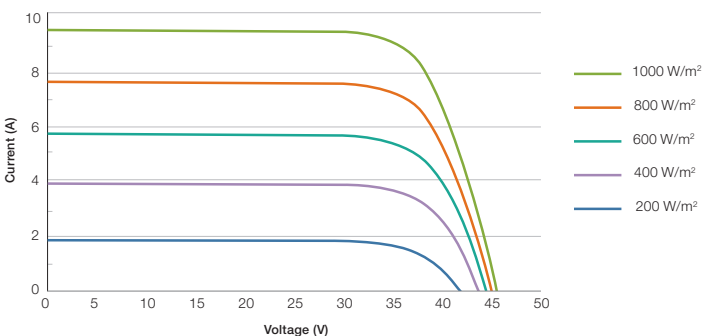
Model #	MEMC-M305ByC	MEMC-M310ByC	MEMC-M315ByC	MEMC-M320ByC	MEMC-M325ByC	MEMC-M330ByC
Rated Maximum Power P _{max} (W)	305	310	315	320	325	330
Open-Circuit Voltage V _{oc} (V)	45.5	45.6	45.7	45.9	46.0	46.2
Short Circuit Current I _{sc} (A)	9.00	9.06	9.08	9.10	9.14	9.18
Module Efficiency (%)	15.6	15.8	16.1	16.4	16.7	16.9
Maximum Power Point Voltage V _{mpp} (V)	36.7	36.1	36.5	37.1	37.4	37.6
Maximum Power Point Current I _{mpp} (A)	8.31	8.60	8.64	8.65	8.69	8.78

All electrical data at standard test conditions (STC): 1000 W/m², AM1.5, 25°C
Electrical characteristics may vary by ±5% and power by -0/+5W

y indicates manufacturing location: M = Malaysia, C = Canada, D = Europe

* Listed specifications are subject to change without prior notice.

IV CURVES AT MULTIPLE IRRADIANCES* [25°C]



IV CURVES AT MULTIPLE TEMPERATURES* [1000 W/m²]

