

## HIGH PERFORMANCE SOLAR MODULES

# REC AE-US

REC AE-Series modules are the perfect choice for building solar systems that combine long lasting product quality with reliable power output. REC combines high quality design and manufacturing standards to produce high-performance solar modules with uncompromising quality.



US - MADE  
SILICON



ROBUST AND  
DURABLE DESIGN



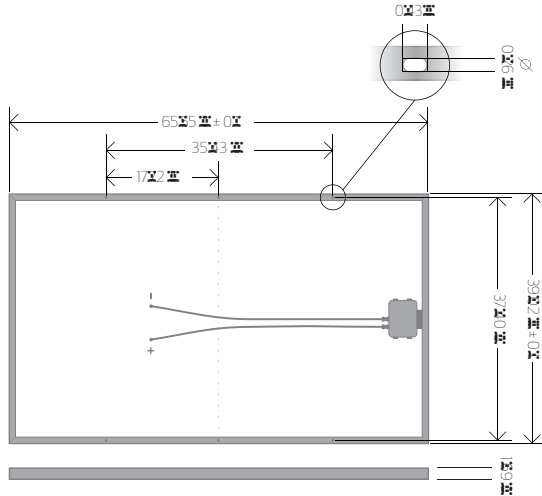
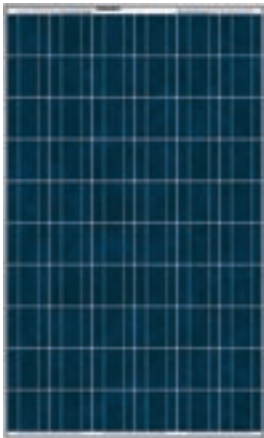
ENERGY PAYBACK  
TIME OF ONE YEAR



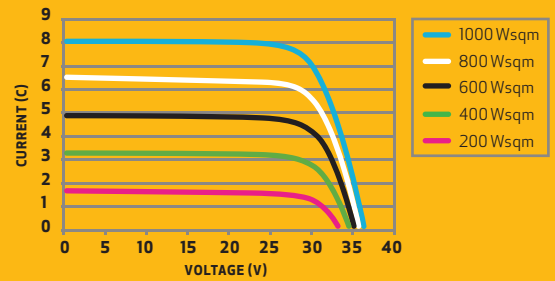
OPTIMIZED ALSO FOR  
CLOUDY WEATHER



# REC AE-US



## IV CHARACTERISTICS 215W MODULE



**13.9** EFFICIENCY  
**63** MONTHS WORKMANSHIP WARRANTY  
**25** YEAR POWER OUTPUT WARRANTY

### ELECTRICAL DATA @ STC

	REC205 AE-US	REC210 AE-US	REC215 AE-US	REC220 AE-US	REC225 AE-US	REC230 AE-US
Peak Power Watts - $P_{MAX}$ (Wp)	205	210	215	220	225	230
Power Output Tolerance - $P_{MAX}$ (%)	±3	±3	±3	±3	±3	±3
Maximum Power Voltage - $V_{MPP}$ (V)	27.2	27.6	28.0	28.4	28.8	29.1
Maximum Power Current - $I_{MPP}$ (A)	7.6	7.6	7.7	7.8	7.8	7.9
Open Circuit Voltage - $V_{OC}$ (V)	36.0	36.1	36.3	36.4	36.6	36.8
Short Circuit Current - $I_{SC}$ (A)	8.3	8.3	8.3	8.4	8.4	8.4
Module Efficiency (%)	12.4	12.7	13.0	13.3	13.6	13.9

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

### TEMPERATURE RATINGS (230W RATED MODULE)

Nominal Operating Cell Temperature (NOCT)	48.6°C (±2°C)
Temperature Coefficient of $P_{MPP}$	-0.497%/°C
Temperature Coefficient of $V_{OC}$	-0.370%/°C
Temperature Coefficient of $I_{SC}$	0.109%/°C

### CERTIFICATION



Certification/Standards  
 Certified according to UL 1703 - 3rd edition

CEC/CSI listed

### MECHANICAL DATA

Dimensions	65.55" x 39.02" x 1.69"
Area	17.76 ft <sup>2</sup>
Weight	48.50 lbs

### GENERAL DATA

Cell Type	156 x 156 mm multi-crystalline cells 60 cells in series
Glass	High-transparency solar glass with antireflection surface treatment by Sunarc Technology
Back sheet	PTE foil
Frame	Anodized aluminium
Connectors	2 x 61 in (1.55m) solar cables with MC4 connectors

### WARRANTY

10 years limited warranty of 90% power output  
 25 years limited warranty of 80% power output  
 63 months limited product warranty

### MAXIMUM RATINGS

Operational Temperature	-40 ... +176°F [-40 ... +80°C]
Maximum System Voltage	600V
Maximum Load	112 lbs/ft <sup>2</sup> (5400 Pa)
Wind Speed	122 mph (safety factor 3, 197 km/h)
Max Series Fuse Rating	15A
Max Reverse Current	15A

**Note!** Specifications subject to change without notice.

REC is the leading vertically integrated player in the solar energy industry. REC Silicon and REC Wafer are among the world's largest producers of polysilicon and wafers for solar applications. REC Solar is a rapidly growing manufacturer of solar cells and modules. In 2008, REC Group had revenues of NOK 8 191 million and an operating profit of NOK 2 529 million. About 2 400 employees work in REC's worldwide organization.

For further information, contact your local distributor or visit our web site: [www.recgroup.com](http://www.recgroup.com)



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