



# PHOTOVOLTAIC SYSTEMS

SAVING-HEALTH-NATUR&SUN  
ECOLOGICAL, SAFE.



### Performance under Standard Test Conditions (1000W/m<sup>2</sup>, AM 1.5 @ 25°Celsius)

	ERDM QM5-80/12	ERDM QM5-100/G	ERDM QM5-175/12	ERDM QM5-175/24
Peak Power (P <sub>max</sub> , W/p)	80	100	175	175
Power Tolerance (%)	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Max Power Voltage (V <sub>mp</sub> )	17.9	19.6	17.6	35.2
Max Power Current (I <sub>mp</sub> )	7.54	5.1	9.94	4.97
Open Circuit Voltage (V <sub>oc</sub> )	22.2	24.0	21.6	43.2
Short Circuit Current (I <sub>sc</sub> )	8.26	5.7	10.88	5.42
Other Wattages Available	70, 75, 85, 90	90, 95, 105	165, 170, 180, 185	165, 170, 180, 185

Note: Tolerance for other electrical parameters is ± 10%

### Physical Parameters

Number of Cells	36	40	72	72
Module Dimension (mm)	545 x 1185	670 x 1480	805 x 1580	805 x 1580
Module Thickness	50	50	50	50
App. Weight (Kgs)	9	14	17	17

### Operation Conditions

Ambient Temperature (°C)	-40 to +90
Maximum System Voltage (V <sub>dc</sub> )	1000
Hail (25mm Ø) Impact Velocity (M/sec)	23

### Cell Temperatur Coefficients

Open Circuit Voltage	-0.35% / °C
Short Circuit Current	-0.05% / °C
Nominal Power	-0.46% / °C

### Components

Solar Cells	Q CELLS Mono crystalline Silicon, GERMANY
Glass	AGC, SOLITE 2000, 4mm tempered, USA
Back Sheet	DUNMORE, DUNSOLAR 1200 TPT, USA
EVA (ethylene-vinyl acetate)	URETHANE PV-135D/7012PP, USA
Junction Box & Connectors	EPIC SOLAR, IP 65, GERMANY
Cables	LAPP Kabel, AWG 12, 4mm <sup>2</sup> , GERMANY
Ribbons & Busbars	CREATIV, ARGENTINA
Anodized Aluminum Frame	ALUMINIO TEXCOCO, MEXICO

# Qm5