



PHOTOVOLTAIC SYSTEMS

SAVING-HEALTH-NATUR&SUN
ECOLOGICAL, SAFE.



Performance under Standard Test Conditions (1000W/m², AM 1.5 @ 25°Celsius)

	ERDM QP5-80/12	ERDM QP5-100/6	ERDM QP5-175/12	ERDM QP5-175/24
Peak Power (P _{max} , W/p)	80	100	175	175
Power Tolerance (%)	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Max Power Voltage (V _{mp})	17.9	19.6	17.6	35.2
Max Power Current (I _{mp})	7.54	5.1	9.94	4.97
Open Circuit Voltage (V _{oc})	22.2	24.0	21.6	43.2
Short Circuit Current (I _{sc})	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	30	30	30	30
App. Weight (Kgs)	9	14	17	17

Operation Conditions

Ambient Temperature (°C)	-40 to +90
Maximum System Voltage (V _{dc})	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 ² , GERMANY
Ribbons & Busbars	CREATIV, ARGENTINA
Anodized Aluminum Frame	ALUMINIO TEXCOCO, MEXICO

Qp5