

High Efficiency, Lightweight, Flexible Photovoltaic Modules

Model Type: **HF90-5-16**

FEATURES

- High efficiency, light weight mono crystalline cells
- Flexible and rugged module
- No junction box
- Integrated cable wire as option
- Frameless
- UV protected

ELECTRICAL CHARACTERISTIC

Parameter	Unit	
Peak Power	W_p	90
Cells efficiency	%	19.4
Voltage at max power point	V_{mpp} (V)	16.9
Current at max power point	I_{mpp} (A)	5.32
Open – circuit voltage	V_{OC} (V)	23.6
Short – circuit current	I_{SC} (A)	5.65
Power tolerance	%	-0/+5
No. reverse blocking diode		0

Values are based on Standard Test Condition defined as 1000W/m², 25 °C, AM 1.5

MECHANICAL CHARACTERISTIC

Parameter	Unit	
Dimensions	mm	1180 x 526 x 1.5
Weight	kg	2.2
Solar Cells		32 x 5" cells in series (array 4x8)
Frame		None

ABSOLUTE MAXIMUM RATINGS

Parameter	Unit	
Operating temperature	°C	-40 to +90
Max System Voltage	V_{DC}	1000

WARRANTY

- 25-year limited warranty on 80% power output
- 10-year limited warranty on 90% power output
- 5-year limited warranty of materials and workmanship

