

High Efficiency, Lightweight, Flexible Photovoltaic Modules

Model Type: HFvt156-6-18

FEATURES

- High efficiency, light weight mono crystalline cells
- Flexible and rugged module
- Integrated power controller with MPPT
- Frameless
- UV protected

ELECTRICAL CHARACTERISTIC

Parameter	Unit	
Peak Power	W_p	156
Cells efficiency	%	19.2
Voltage at max power point	V_{mpp} (V)	18.25
Current at max power point	I_{mpp} (A)	8.62
Open – circuit voltage	V_{OC} (V)	20.53
Short – circuit current	I_{SC} (A)	12.0
Power tolerance	%	-0/+5
No. active power controller		3

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

MECHANICAL CHARACTERISTIC

Parameter	Unit	
Dimensions	mm	1026 x 1000 x 1.5
Weight	kg	2.3
Solar Cells		36 cells in series (array 6x6)
Frame		None

ABSOLUTE MAXIMUM RATINGS

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

OPTIONAL

Parameter	
Mounting hole	3mm diameter

WARRANTY

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

NOTE

- I/V measurement required special procedure
- Bypass diode functionality integrate in integrated active power controller

