

HNM80M-12

Features:

The module is made with high efficiency mono crystalline , with a silicon nitride anti-reflective coating

- 20 Years Output Warranty (80%) *
- 10 Years Output Warranty (90%) *
- 3 Years Product Guarantee*

- Bypass diode minimizes the power drop caused by shade .
- Anodized aluminium frame and junction box (IP 65) for extended outdoor use .

* According to general warranty condition

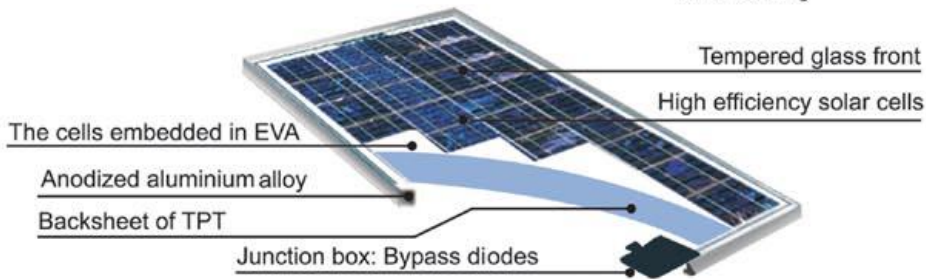
Mechanical Specifications :

Application :

- Telecommunication
- Hospitals , clinics
- Community lighting
- Traffic and building signals
- Water pumping
- Use in ocean , petrol , meteorological
- PV station
- Grid connection
- Solar home systems
- Battery charging
- Street and camp lights

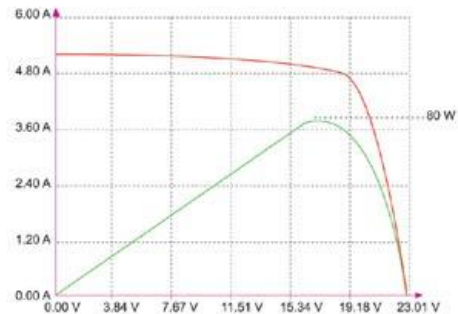
Qualification Test:

Operating temperature range -40 °C to + 80 °C
 Wind bearing 160 Km/h



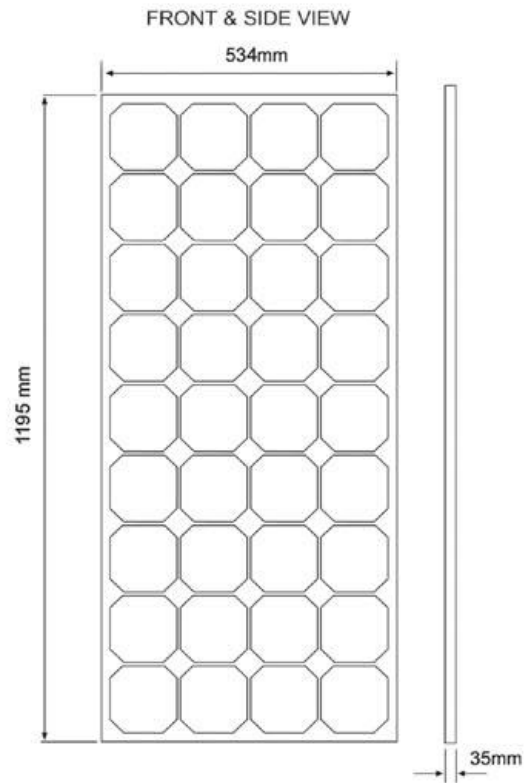
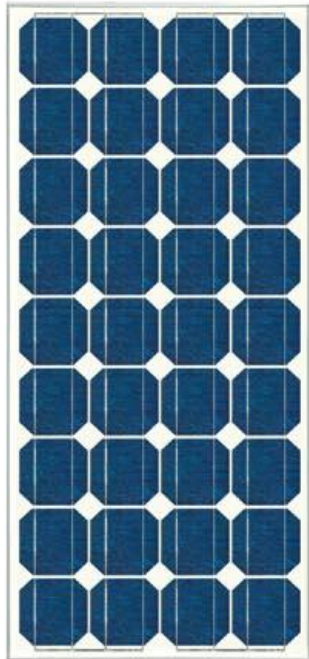
Electrical Characteristics			
Peak Power	Pmax	[Wp]	80
Max.Power Current	Imp	[A]	4.8
Max.Powe Voltage	Vmp	[V]	17
Short Circuit current	Isc	[A]	5.3
Open Circuit Voltage	Voc	[V]	21
Maximum System Voltage	DC	[V]	1000
Power tolerance		[%]	±5
Temp. Co eff. of Isc (TK Isc) Temp.		[% / °C]	0.04
Co eff. of Voc (TK Voc) Temp.		[% / °C]	-0.33
Co eff. of Pmax (TK Pmax)		[% / °C]	-0.47
Normal operation cell temperature		[°C]	45 ± 2
Standard test conditions (STC)	Spectrum AM 1.5 , 1000 W/m ² , Module temperature 25°C		

Curve Characteristics:



Mechanical Characteristics	
Dimension	1195 × 534 × 35 mm
Weight	7.5 Kg
Solar cells	36 cells (Mono Crystalline Silicon , 125 mm × 125 mm) configured geometrically for a 4×9 Matrix connected in series
Output cables length	2 × 900 mm (Optinal)
Construction	Front : High transmission 3.2 mm tempered glass
	Rear : White backsheet (TPT) ; Encapsulant : EVA

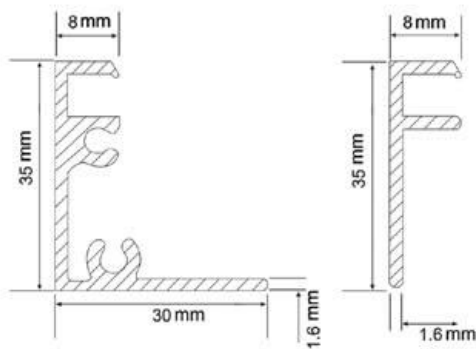
Physical Characteristics



Frame view



Jbox view



Frame detail

