



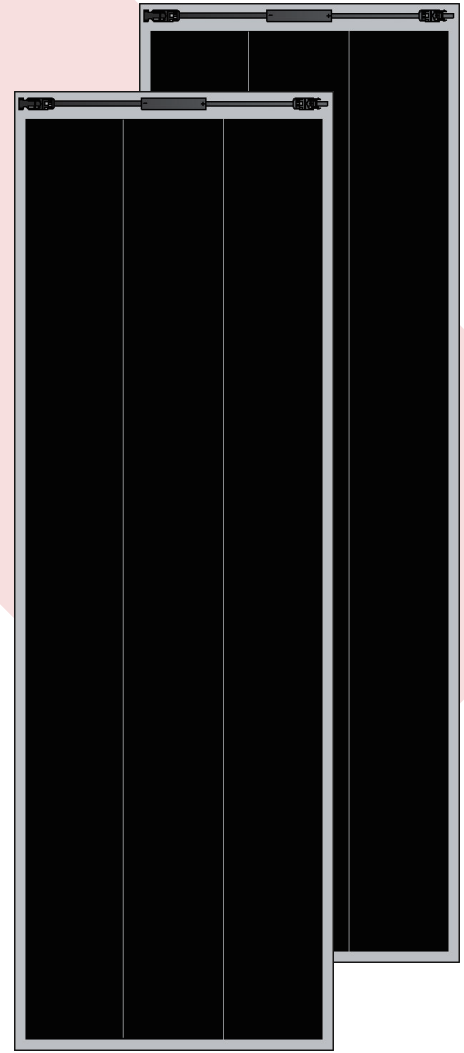
**Harmony Fab**  
汉 摩 尼 光 电

# Shingle-F

**HARMONY FAB**

# 150W

**Flexible Solar Panel**

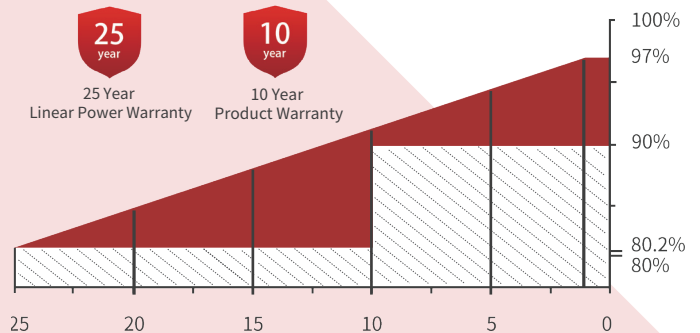


Quality system: ISO 9001: 2005



## Linear Performance Warranty

linear power warranty



**Light Weight**  
Frameless, Glass free



**Flexibility**  
Special manufacturing process and materials provide bending ability



**Aesthetic Appearance**  
Shingling Tech., High Consistency



**Easy Installation**  
Light weight, easy for handling



**Customized**  
Provide Customized Service

## ELECTRICAL CHARACTERISTICS

STC	HMN-150-EWAS
Maximum Power (P <sub>max</sub> )	150W
Maximum Power Voltage(V <sub>mp</sub> )	27.4V
Maximum Power Current(I <sub>mp</sub> )	5.47A
Open-circuit Voltage(V <sub>oc</sub> )	33.1V
Short-circuit Current(I <sub>sc</sub> )	5.71A
Module Efficiency(%)	19.0%
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	600VDC
Maximum Series Fuse Rating	15A
Application Class	Class A
Power Tolerance	0~+5W

STC:Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

## MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon cell
No. of cells	150 (3*50)
Module Dimensions	L:1520*W:520*H:18 mm
Weight	2.8 kg
Backsheet	White PV Backsheet
J-Box	IP 67
Output cables	4mm <sup>2</sup>
Cable length	(+)/(-) 300mm
Connector	MC4 compatible

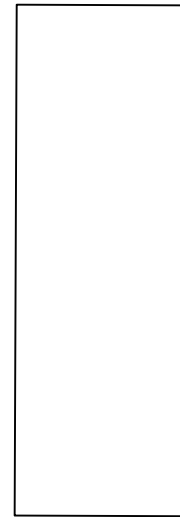
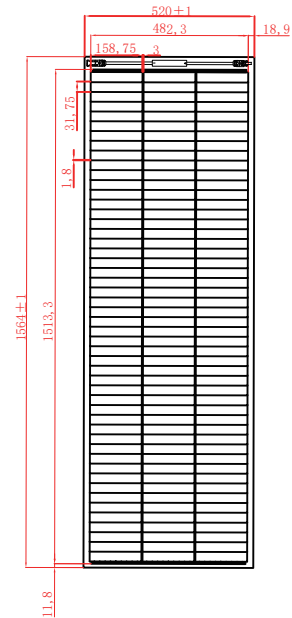
## TEMPERATURE CHARACTERISTICS

NOCT(Nominal Operating Cell Temperature)	41 ± 2°C
Temperature Coefficient of P <sub>max</sub>	-0.38%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.28%/°C
Temperature Coefficient of I <sub>sc</sub>	0.020%/°C

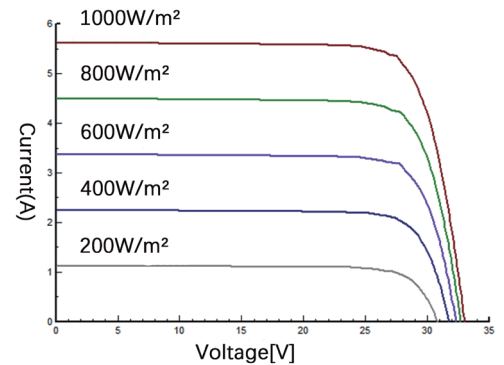
## Packaging

Pieces per pallet	35
Container	20'GP
Pieces per container	735
Container	40'GP
Pieces per container	1470

## CHARACTERISTICS



## I-V CURVE



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