

# SOLAR PANELS

## BHF 175W

### Solar Panels Features And Benefits

- Manufactured from high quality multicrystalline silicon wafers
- Uniform surface morphology through isotropic texturization
- Emitter deposition in a metal-free roller furnace
- Uniform blue anti-reflection coating to enhance wide spectral response
- Metallization through highly automated printing line with world-class vision system ensuring best print quality through auto-paste dispenser
- Edge isolation by laser ablation technique
- 100% sorting for both visual and electrical parameters using class A sorter

### Manufacturing Excellence

- Proprietary wafer inspection system to carry out 100% incoming wafer inspection to ensure highest wafer to cell yield
- Inline integrated quality control and monitoring
- Highly safe operating conditions through automated Chemical Dosing System (CDS)
- Automated cell sorting into 32 separate bins based on IEC 609041 guidelines

### Quality Standards

- 100% inspection for reverse current, shunt resistance and series resistance
- 100% inspection for visual and optical defects such as cracks or holes, finger interruption, rear bus bar interruption, missing Aluminium print per cell, and surface contamination
- Cells calibrated to reference cells from Fraunhofer ISE cell lab, Germany, traceable to NIST standard
- Bar-coded packaging to facilitate complete “wafer to cell” electronic data trail



<b>ELECTRICAL CHARACTERISTICS</b>	<b>: SS-175</b>	
Nominal Power (Pm) in Watts	: 175	
Open Circuit Voltage (Voc) in Volts	: 32.0	
Short Circuit Current (Isc) in Amps	: 7.29	
Voltage at Maximum Power (Vmp) in Volts	: 26.0	
Current at Maximum Power (Imp) In Amps	: 6.73	
Maximum System Voltage	: 1000V/600V	
<b>PHYSICAL PARAMETERS</b>		
Solar Cells per Module (Units)	: 54	
Length X Width X Thickness (LXWXT) in mm	: 1490X990X35	
In Inches	: 58.7X39.0X1.4	
Weight in Kg	: 17.5	
Mounting Holes Pitch(Y) in mm	: 900.00	
In Inches	: 35.4	
Mounting Holes Pitch(X) in mm	: 949	
In Inches	: 37.4	
Area in Sq. Meter	: 1.475	
In Sq. Feet	: 15.9	
Junction Box	: IP 65 with Diodes	
<b>OTHER CHARACTERISTICS</b>		
Type of cell		: Mono / Multi crystalline Silicone
Front Face	: Tempered Glass (Low Iron)	
Encapsulate	: EVA (Ethylene Vinyl Acetate)	
Frame	: Anodized Aluminium	
Junction Box	: Weather Proof Nylon 6	
Temp. Coefficient	: Voltage:	-0.123 V/°K
	Current:	+4.4mA / °K
	Power:	-0.47%/°K
NOCT	: 47 +/- 2 °C	