

# **SOLAR PANELS**

## **BHF 230W**

## **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

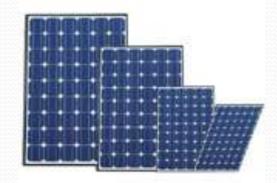
#### **Manufacturing Excellence**

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 trai

TECHNICAL PARAMETERS	: BURHANI PV MODULE	
ELECTRICAL CHARACTERISTICS	: SS-230	
Nominal Power (Pm) in Watts	: 230	
Open Circuit Voltage (Voc) in Volts	: 36.0	
Short Circuit Current (Isc) in Amps	: 8.52	
Voltage at Maximum Power (Vmp) in Volts	: 29.0	
Current at Maximum Power (Imp) In Amps	: 7.93	
Maximum System Voltage	: 1000V/600V	
PHYSICAL PARAMETERS		
Solar Cells per Module (Units)	: 60	
Length X Width X Thickness (LXWXT) in mm	: 1660X990X42	
In Inches	: 65.4X39.0X1.7	
Weight in Kg	: 20.5	
Mounting Holes Pitch(Y) in mm	: 1000.00	
In Inches	: 39.4	
Mounting Holes Pitch(X) in mm	: 945	
In Inches	: 37.2	
Area in Sq. Meter	: 1.643	
In Sq. Feet	: 17.67	
Junction Box	: IP 65 with Diodes	
OTHER CHARACTERISTICS		
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	

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