

## SOLAR PANELS

### BHF 20W

#### 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>TECHNICAL PARAMETERS</b>	<b>: BURHANI PV MODULE</b>	
<b>ELECTRICAL CHARACTERISTICS</b>	<b>: SS-20</b>	
Nominal Power (Pm) in Watts	: 20	
Open Circuit Voltage (Voc) in Volts	: 21.0	
Short Circuit Current (Isc) in Amps	: 1.20	
Voltage at Maximum Power (Vmp) in Volts	: 17.0	
Current at Maximum Power (Imp) In Amps	: 1.18	
Maximum System Voltage	: 600V	
<b>PHYSICAL PARAMETERS</b>		
Solar Cells per Module (Units)	: 36	
Length X Width X Thickness (LXWXT) in mm	: 485X350X22	
In Inches	: 19.1X13.8X0.8	
Weight in Kg	: 2.10	
Mounting Holes Pitch(Y) in mm	: 245.00	
In Inches	: 9.6	
Mounting Holes Pitch(X) in mm	: 322	
In Inches	: 12.7	
Area in Sq. Meter	: 0.22	
In Sq. Feet	: 2.37	
Junction Box	: IP 65	
<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	