

# SOLAR PANELS

## BHF 5W

### 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



TECHNICAL PARAMETERS		BURHANI PV MODULE	
ELECTRICAL CHARACTERISTICS		SS-5	SS-5A
Nominal Power (Pm) in Watts	: 5		3
Open Circuit Voltage (Voc) in Volts	: 21.0		10.0
Short Circuit Current (Isc) in Amps	: 0.30		0.38
Voltage at Maximum Power (Vmp) in Volts	: 17.0		8.80
Current at Maximum Power (Imp) In Amps	: 0.29		0.34
Maximum System Voltage	: 600V		600V
PHYSICAL PARAMETERS			
Solar Cells per Module (Units)	: 36		18
Length X Width X Thickness (LXWXT) in mm	: 290X185X22		290X185X22
In Inches	: 11.4X7.3X0.8		11.4X7.3X0.8
Weight in Kg	: 0.85		0.85
Mounting Holes Pitch(Y) in mm	: 145.00		145.00
In Inches	: 5.7		5.7
Mounting Holes Pitch(X) in mm	: 155		155
In Inches	: 6.1		6.1
Area in Sq. Meter	: 0.05		0.05
In Sq. Feet	: 0.54		0.54
Junction Box	: IP 65		IP 65
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		