

## SOLAR PANELS

### BHF 3W

#### 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	
<b>ELECTRICAL CHARACTERISTICS</b>	<b>SS-3</b>	<b>SS-3A</b>
Nominal Power (Pm) in Watts	3	3
Open Circuit Voltage (Voc) in Volts	21.0	10.0
Short Circuit Current (Isc) in Amps	0.19	0.38
Voltage at Maximum Power (Vmp) in Volts	17.0	8.80
Current at Maximum Power (Imp) In Amps	0.18	0.34
Maximum System Voltage	600V	600V
<b>PHYSICAL PARAMETERS</b>		
Solar Cells per Module (Units)	36	18
Length X Width X Thickness (LXWXT) in mm	255X185X22	185X185X22
In Inches	10.0X7.3X0.8	7.3X7.3X0.8
Weight in Kg	0.75	0.65
Mounting Holes Pitch(Y) in mm	127.50	92.50
In Inches	5.0	3.6
Mounting Holes Pitch(X) in mm	155	155
In Inches	6.1	6.1
Area in Sq. Meter	0.05	0.03
In Sq. Feet	0.54	0.32
Junction Box	IP 65	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	