

SOLAR PANELS

BHF 90W

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

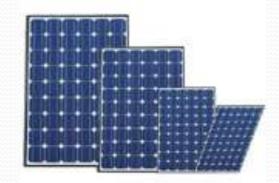
Manufacturing Excellence

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-90	
Nominal Power (Pm) in Watts	: 90	
Open Circuit Voltage (Voc) in Volts	: 21.0	
Short Circuit Current (Isc) in Amps	: 5.71	
Voltage at Maximum Power (Vmp) in Volts	: 17.0	
Current at Maximum Power (Imp) In Amps	: 5.29	
Maximum System Voltage	: 1000V	
PHYSICAL PARAMETERS		
Solar Cells per Module (Units)	: 36	
Length X Width X Thickness (LXWXT) in mm	: 1035X675X35	
In Inches	: 40.7X26.6X1.4	
Weight in Kg	: 9.0	
Mounting Holes Pitch(Y) in mm	: 545.00	
In Inches	: 21.5	
Mounting Holes Pitch(X) in mm	: 629	
In Inches	: 24.8	
Area in Sq. Meter	: 0.70	
In Sq. Feet	: 7.53	
Junction Box	: 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	

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