

SOLAR PANELS

BHF 80W

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-80
Nominal Power (Pm) in Watts	:	80
Open Circuit Voltage (Voc) in Volts	:	21.0
Short Circuit Current (Isc) in Amps	:	5.08
Voltage at Maximum Power (Vmp) in Volts	:	17.0
Current at Maximum Power (Imp) In Amps	:	4.71
Maximum System Voltage	:	1000V
PHYSICAL PARAMETERS		
Solar Cells per Module (Units)	:	36
Length X Width X Thickness (LXWXT) in mm	:	920X675X35
In Inches	:	36.2X26.6X1.4
Weight in Kg	:	8.30
Mounting Holes Pitch(Y) in mm	:	450.00
In Inches	:	17.7
Mounting Holes Pitch(X) in mm	:	629
In Inches	:	24.8
Area in Sq. Meter	:	0.62
In Sq. Feet	:	6.67
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