

SOLAR PANELS

BHF 140W

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



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|--|--------------------------------|------------------------------------|
| TECHNICAL PARAMETERS | : BURHANI PV MODULE | |
| ELECTRICAL CHARACTERISTICS | : SS-140 | |
| Nominal Power (Pm) in Watts | : 140 | |
| Open Circuit Voltage (Voc) in Volts | : 21.0 | |
| Short Circuit Current (Isc) in Amps | : 8.89 | |
| Voltage at Maximum Power (Vmp) in Volts | : 17.0 | |
| Current at Maximum Power (Imp) In Amps | : 8.24 | |
| Maximum System Voltage | : 1000V/600V | |
| PHYSICAL PARAMETERS | | |
| Solar Cells per Module (Units) | : 36 | |
| Length X Width X Thickness (LXWXT) in mm | : 1490X675X35 | |
| In Inches | : 58.7X26.6X1.4 | |
| Weight in Kg | : 11.75 | |
| Mounting Holes Pitch(Y) in mm | : 915.00 | |
| In Inches | : 36 | |
| Mounting Holes Pitch(X) in mm | : 627 | |
| In Inches | : 24.7 | |
| Area in Sq. Meter | : 1.009 | |
| In Sq. Feet | : 10.86 | |
| Junction Box | : IP 65 with Diodes | |
| OTHER CHARACTERISTICS | | |
| Type of cell | | : Mono / Multi crystalline Silicon |
| 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 | |