

# SOLAR PANELS

## BHF 25W

### 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-25</b>                        |             |
| Nominal Power (Pm) in Watts              | : 25                                |             |
| Open Circuit Voltage (Voc) in Volts      | : 21.0                              |             |
| Short Circuit Current (Isc) in Amps      | : 1.48                              |             |
| Voltage at Maximum Power (Vmp) in Volts  | : 17.0                              |             |
| Current at Maximum Power (Imp) In Amps   | : 1.47                              |             |
| Maximum System Voltage                   | : 600V                              |             |
| <b>PHYSICAL PARAMETERS</b>               |                                     |             |
| Solar Cells per Module (Units)           | : 36                                |             |
| Length X Width X Thickness (LXWXT) in mm | : 630X345X22                        |             |
| In Inches                                | : 20.8X13.5X0.8                     |             |
| Weight in Kg                             | : 2.65                              |             |
| Mounting Holes Pitch(Y) in mm            | : 330.00                            |             |
| In Inches                                | : 13.0                              |             |
| Mounting Holes Pitch(X) in mm            | : 318                               |             |
| In Inches                                | : 12.5                              |             |
| Area in Sq. Meter                        | : 0.26                              |             |
| In Sq. Feet                              | : 2.80                              |             |
| Junction Box                             | : 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                       |             |