

# SOLAR PANEL



**30 YEARS PANEL  
WARRANTY**



**95% SAVING ON  
ELECTRICITY EXPENSES**



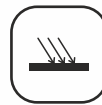
Ip68 Junction Box For High  
Waterproof level



LCOE Is Cut Back by using M10 size solar cell  
with adding more power output than lower  
size cell module



Field Reliability is improved due to multiple  
contact points on the cell which lowers the  
cell stress during module fabrication



AR Coated Tempered Glass Anti-  
Reflective Module Surface



Excellent Module Efficiency



**Defects** Pre and Post EL Checking to ensure  
defect free module



Excellent module conversion  
efficiency of up to 21.3%

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# ENERGISTRA



| Mono c-Si PERC, Shingled cells, 210 mm, 1500V, 46F-cell |           |  | SU46C-F-420   |       | SU46C-F-425 |       | SU46C-F-430 |       | SU46C-F-435 |       | SU46C-F-440 |       | SU46C-F-445 |       |
|---|-----------|--|---|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
| Energistra  |           |  | STC   | NOCT  | STC         | NOCT  | STC         | NOCT  | STC         | NOCT  | STC         | NOCT  | STC         | NOCT  |
| NominalMax.Power  | Pmax (Wp) |  | 420   | 316   | 425         | 320   | 430         | 324   | 435         | 328   | 440         | 331   | 445         | 335   |
| Maximum Power Voltage                                   | Vmp (V)   |  | 35.90   | 34.20 | 36.00       | 34.30 | 36.10       | 34.40 | 36.20       | 34.50 | 36.30       | 34.60 | 36.40       | 34.70 |
| Maximum Power Current                                   | Imp (A)   |  | 11.71   | 9.24  | 11.81       | 9.32  | 11.92       | 9.41  | 12.02       | 9.49  | 12.13       | 9.57  | 12.23       | 9.66  |
| Open-Circuit Voltage                                    | Voc (V)   |  | 43.30   | 41.30 | 43.40       | 41.40 | 43.50       | 41.50 | 43.60       | 41.60 | 43.70       | 41.70 | 43.80       | 41.80 |
| Short-Circuit Current                                   | Isc (A)   |  | 12.46   | 10.05 | 12.56       | 10.14 | 12.68       | 10.23 | 12.79       | 10.32 | 12.90       | 10.41 | 13.01       | 10.50 |
| Module efficiency                                       | (%)       |  | 20.20   |       | 20.40       |       | 20.70       |       | 20.90       |       | 21.10       |       | 21.40       |       |
| Power Tolerance   | Pmax (Wp) |  | 0~+5  |       |             |       |             |       |             |       |             |       |             |       |
| Maximum System Voltage DC                               | (V)       |  | 1500  |       |             |       |             |       |             |       |             |       |             |       |
| Maximum Series Fuse Rating                              | (A)       |  | 25  |       |             |       |             |       |             |       |             |       |             |       |
| Operating temperature                                   | (°C)      |  | -40~+85   |       |             |       |             |       |             |       |             |       |             |       |
| Temp. coefficients of Pmax                              | (%/°C)    |  | -0.34   |       |             |       |             |       |             |       |             |       |             |       |
| Temp. coefficients of Voc                               | (%/°C)    |  | -0.27   |       |             |       |             |       |             |       |             |       |             |       |
| Temp. coefficients of Isc                               | (%/°C)    |  | 0.04  |       |             |       |             |       |             |       |             |       |             |       |
| Nom. Operating cell temp. (NOCT)                        | (°C)      |  | 42.3±2  |       |             |       |             |       |             |       |             |       |             |       |
| Cell Type   |           |  | 210mm   |       |             |       |             |       |             |       |             |       |             |       |
| Dimensions  |           |  | 1899*1096*30mm                                      |       |             |       |             |       |             |       |             |       |             |       |
| Weight  |           |  | 21.8 kg   |       |             |       |             |       |             |       |             |       |             |       |
| Junction Box  |           |  | IP68, 2 Bypass Diodes                               |       |             |       |             |       |             |       |             |       |             |       |
| Output Cable  |           |  | +300mm/-1000mm(Vertical), +220mm/-180mm(Horizontal) |       |             |       |             |       |             |       |             |       |             |       |
| Connector Type  |           |  | PV Connector  |       |             |       |             |       |             |       |             |       |             |       |
| Hail Resistance   |           |  | distance 1m,Hail stone Diameter 25mm,Speed 23m/s    |       |             |       |             |       |             |       |             |       |             |       |
| Wind Load   |           |  | 2400 Pa / 244 kg/ m²                                |       |             |       |             |       |             |       |             |       |             |       |
| Mechanical Load   |           |  | 5400 Pa / 550 kg/ m²                                |       |             |       |             |       |             |       |             |       |             |       |
| Packing Configuration                                   |           |  | 36/72   |       |             |       |             |       |             |       |             |       |             |       |
| Loading Capacity (40HQ)                                 |           |  | 864   |       |             |       |             |       |             |       |             |       |             |       |
| Size / Pallet (mm)                                      |           |  | 1916*1125*1230/1916*1125*2460                       |       |             |       |             |       |             |       |             |       |             |       |
| Weight / Pallet   |           |  | 825/1650  |       |             |       |             |       |             |       |             |       |             |       |