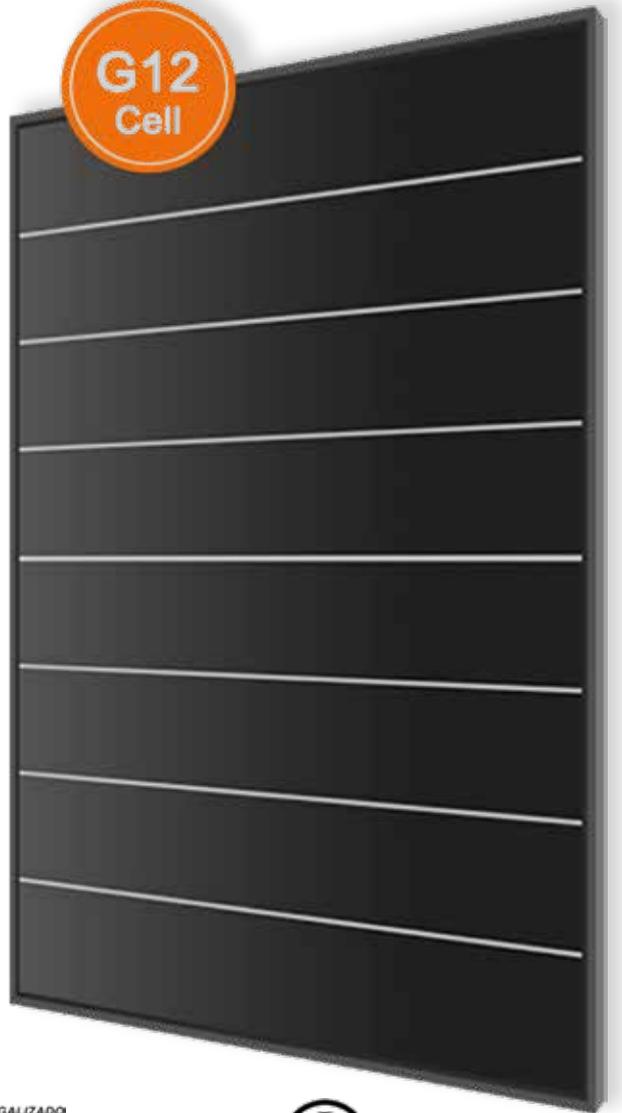




# 410W

**20.63%**  
Module efficiency

# Shingled Black Series

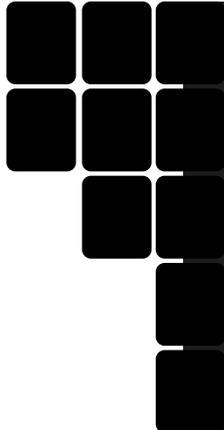


Shingled series of solar modules by FLY is engineered with the best technology for domestic and commercial roof applications which give world-class performance.

The Cells and raw materials structure design ensures production maximisation even on shaded roofs and enhances the trustability.

Shingled series includes the most advanced technology of solar cells like PERC, N-type Multiple busbars, and bifacial.

Shingled series is designed to improve performance under real conditions no matter in domestic or marketable solar plants.



**Shingling Technology**  
Innovative structure, low-temperature adhesive bonding, high-density layout. Uniform layout with better aesthetic.



**Warranty Extended Up To 25 Years**  
Cortex provide 25 years warranty of product materials and workmanship which is leading the whole industry.



**Lower Power Degradation**  
Ensured PIO resistance through cell process and module material control to help harvest more. Cortex is guaranteed ONLY 0.5% annual power degradation is 30 years.



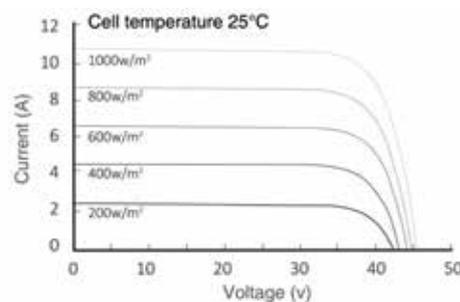
**Durability In Extreme Conditions**  
Cortex is passed the test by salt mist, ammonia and mechanical loads up to 5400pa positive.



## Electrical Characteristics at Standard Test Conditions (STC)

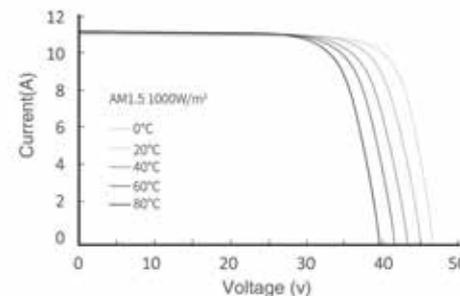
| Spec/Model                       | Unit | FLY410M60-SHI |
|----------------------------------|------|---------------|
| Prak Power Watts- $P_{max}$ *    | W    | 410           |
| Power Output Tolerance           |      | 0 / +3%       |
| Maximum Power Voltage- $V_{MPP}$ | V    | 36.74         |
| Maximum Power Current- $I_{MPP}$ | A    | 11.16         |
| Open Circuit Voltage- $V_{oc}$   | V    | 44.75         |
| Short Circuit Current- $I_{sc}$  | A    | 11.49         |
| Module Efficiency                | %    | 20.63         |

STC: Irradiance 1000w/m<sup>2</sup>, AM1.5, environmental temperature 25°C; tested according to EN 60904-3



## Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

| Spec/Model                      | Unit | FLY410M60-SHI |
|---------------------------------|------|---------------|
| Max-Power- $P_{max}$            | W    | 309           |
| Max-Power Voltage- $V_{MPP}$    | V    | 33.70         |
| Max-Power Current- $I_{MPP}$    | A    | 9.17          |
| Open-Circuit Voltage- $V_{oc}$  | V    | 41.05         |
| Short-Circuit Current- $I_{sc}$ | A    | 9.45          |



## Mechanical Characteristics

|                                  |  |  |
|----------------------------------|--|--|
| Actual Model Dimension           | ( H x W x O) 1740 x 1142 x 30mm                          |  |
| Weight                           | 21.5Kg   |  |
| Front Glass                      | 3.2mm toughened glass                                    |  |
| Cell                             | Monocrystalline PERC 210mm (G12)                         |  |
| Backplate                        | High weather resistance                                  |  |
| Frame                            | Anodic alumina profile                                   |  |
| Junction box (protection degree) | IP68, TUV, 2 diodes                                      |  |
| Cable                            | 1000m long, 4mm <sup>2</sup> cross section, customizable |  |
| Connector                        | MC4 Compatible/original EVO2                             |  |

## Operating Conditions

|                                |   |
|--------------------------------|---|
| Max. system voltage (V)        | 1500V(IEC)                                |
| Maximum fuse rated current     | 20A                                       |
| Maximum front static load (Pa) | 5400                                      |
| Working temperature (°C)       | 18A                                       |
| Operating temperature range    | -40~+85                                   |
| Hail resistance                | Maximum diameter 25mm, impact speed 23m/s |

## Temperature Coefficient

|   |           |
|---|-----------|
| NMOT  | 42.30±2°C |
| Open Circuit Voltage Temperature Coefficient  | -0.27%/°C |
| Short Circuit Voltage Temperature Coefficient | -0.04%/°C |
| Maximum Power Temperature Coefficient         | -0.34%/°C |

## Package

(Two pallets = One stack)  
36pcs/pallets, 936pcs/40'HQ

## Warranty

25 years Product Workmanship Warranty  
30 years Power Warranty



## Fly Solartech Solutions SRL

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