



400W

21.3%
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.



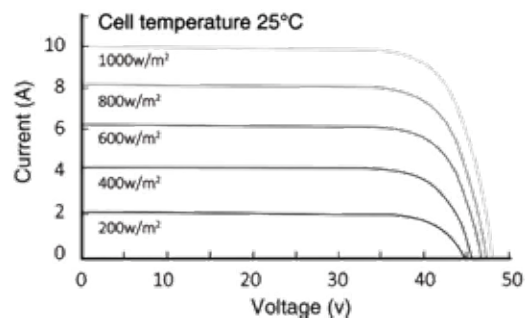
Durability In Extreme Conditions
Cortex is passed the test by salt mist, ammonia and mechanical loads up to 5400pa positive.



Electrical Characteristics at Standard Test Conditions (STC)

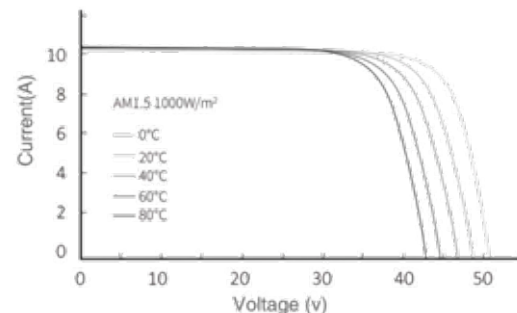
Spec/Model	Unit	FLY400M60-SHI
Prak Power Watts- P_{max} *	W	400
Power Output Tolerance		0 / +3%
Maximum Power Voltage- V_{MPP}	V	41.00
Maximum Power Current- I_{MPP}	A	9.76
Open Circuit Voltage- V_{oc}	V	49.50
Short Circuit Current- I_{sc}	A	10.12
Module Efficiency	%	21.30

STC: Irradiance 1000w/m², AM1.5, environmental temperature 25°C; tested according to EN 60904-3



Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	FLY400M60-SHI
Max-Power- P_{max}	W	301
Max-Power Voltage- V_{MPP}	V	39.10
Max-Power Current- I_{MPP}	A	7.71
Open-Circuit Voltage- V_{oc}	V	47.20
Short-Circuit Current- I_{sc}	A	8.15



Mechanical Characteristics

Actual Model Dimension	(H x W x O) 1646 x 1140 x 30mm
Weight	19.0Kg
Front Glass	3.2mm toughened glass
Cell	Monocrystalline silicon cell
Cell layout	360 (36x10)
Frame	Anodic alumina profile
Junction box (protection degree)	IP68, 2 diodes
Cable	1000m long, 4mm ² 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, 1008pcs/40'HQ

Warranty

25 years Product Workmanship Warranty
30 years Power Warranty



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