

SmartFlower

The smart, simple
& stunning solar system

SmartFlower is a revolutionary solar energy system that follows the sun from sunrise to sunset. Beneath its elegant design is a remarkably intelligent system, fully integrated with smart features that produce up to 40% more power. There's no better way to showcase your commitment to sustainability than with a SmartFlower.



SMARTFLOWER TECHNICAL DATA



SYSTEM GENERAL DATA

Nominal power output	2.5 kWp
Annual output with 2-axis tracking	4,000–6,500 kWh *
System self-consumption per year	Approx. 400 kWh
System warranty	2 years parts and labor
System certifications	CE

OPERATIONAL CONDITIONS

Operational temperature range	-20°C to 55°C -4°F to 131°F
Humidity	0–95% (non condensing)
Automatic wind protection system	See “Safety Positions”
Wind speed	**
< 13 m/s (29 mph/47 kph)	Sun tracking
13 to 17.5 m/s (29 to 40 mph/47 to 63 kph)	SIPO1
> 17.5 m/s (40 mph/63 kph)	SIPO2

SOLAR MODULE

Panel type	Glass / Backsheet
Cell type	Monocrystalline PERC
Array configuration	12 module, single string

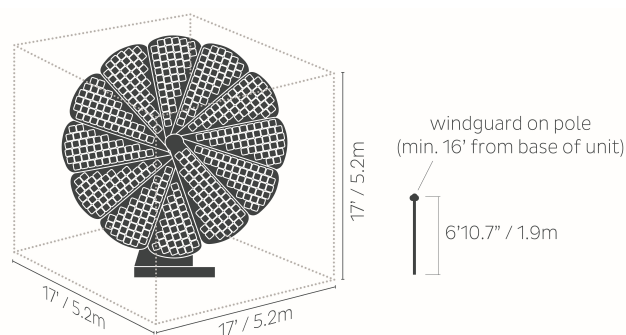
INVERTER DATA

Inverter	Integrated with unit
Nominal frequency	50 Hz/60 Hz
Available grid settings	Single-phase, UL, 208V / 240V Single-phase, 220V / 230V Three-phase, 220V / 380V or 230V / 400V

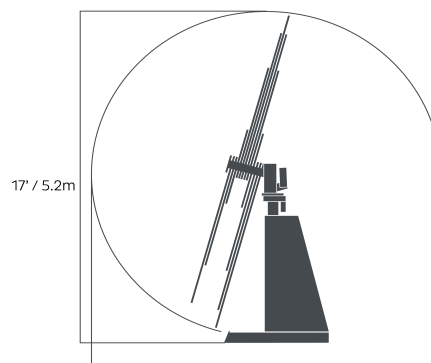
Specific inverter determined by region and grid. For additional inverter details, contact a SmartFlower sales representative.

DIMENSIONS

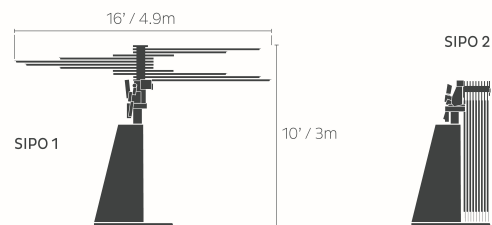
ACTIVE AREA



TRACKING, MAX. HEIGHT

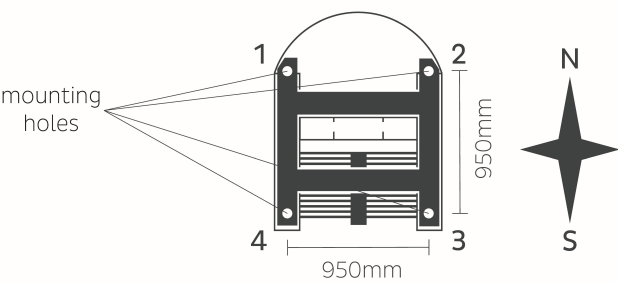


SAFETY POSITIONS

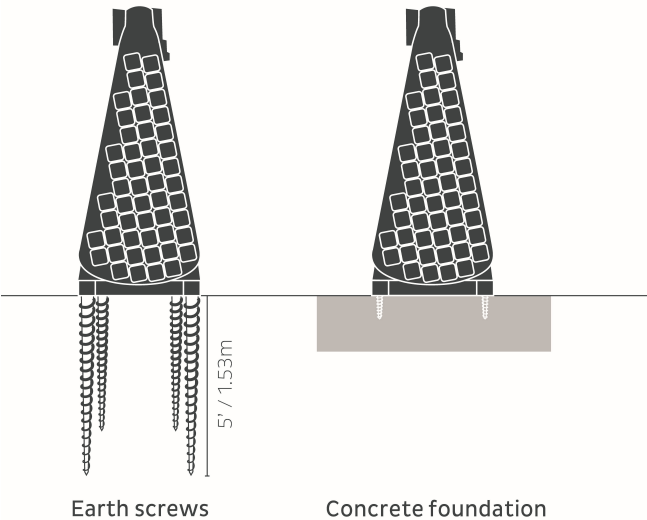


INSTALLATION DRAWINGS

BOTTOM VIEW



FOUNDATION



ELECTRICAL CONNECTIONS

1P UL, 240/208V	1~ NPE (L1, L2, N, PE)
1P 220/230V	1~ NPE (L, N, PE)
3P 220/380V or 230/400V	3~ NPE (L1, L2, L3, N, PE)
Grid connection (circuit breaker)	***
1P UL, 208/240V	20A
1P 220/230V	16A
3P 220/380V or 230/400V	16A
Wind sensor	65 ft 20 m cable included

INSTALLATION

Mounting	4 fastening points
Assembly	Earth screws, concrete foundation, or a pre-cast concrete pad ****

REMOTE MONITORING

Network / LAN cable	CAT 5e or better with RJ45 Connector
Off-grid / remote location	Cell network enabled kit (optional)

SYSTEM ORIENTATION

Northern Hemisphere	Modules must face south
Southern Hemisphere	Modules must face north

SYSTEM WEIGHT AND DIMENSIONS

System weight	~1540lbs ~700 kg
Shipping dimensions (in mm):	
Vertical packaging	65 x 47 x 106 1650 x 1190 x 2680
Horizontal packaging (special order)	111 x 46 x 73 2800 x 1160 x 1850
Total shipping weight (Vertical)	~1950 lbs ~885 kg
Total shipping weight (Horizontal)	~2095lbs ~950kg

- * Dependent on geographical location and weather
- ** Wind speed threshold can be adjusted from 5 m/s to 13 m/s (11 mph to 30 mph/17.5 kph to 47 kph)
- *** Local standards must be followed
- **** Recommendations may vary based on local jurisdiction and soil conditions

For more information, contact info@smartflowersolar.com
The product images shown are for illustration purposes only and may not be an exact representation of the product.



The World's Most Intelligent Solar System



Catch every last ray of sunlight.

The smart tracking system is the core of SmartFlower's brilliance. Every morning at sunrise, SmartFlower automatically unfolds. The dual-axis system allows SmartFlower's solar panels to follow the sun across the sky throughout the day, always maintaining the optimal 90° angle. This enables SmartFlower to produce up to 40% more power than a conventional solar system and capable of producing up to 6,500 kWh/year, depending on your location.



Simple.

Control your SmartFlower and monitor your energy production from the comfort of your phone with our remote monitoring app.



Efficient.

Our certified SmartFlower technicians can set it up in just a few hours, providing you with immediate energy independence.



Independent.

Self-cleaning and convection cooling keep SmartFlower running at maximum efficiency.



Elegant.

Unique and powerful features packaged in an award-winning, iconic design.



Recipient of the Red Dot Design Award, the Sustainable Entrepreneurship Award, the Green Good Design Award, the Verbund-E-Novations Award, and the Hong Kong Green Building Award