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**.





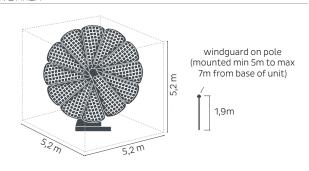
SMARTFLOWER TECHNICAL DATA - 50Hz



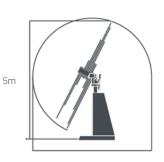
Nominal power output 2,5 kWp Annual output with 2-axis tracking 4,000—6,500 kWh * SOLAR MODULE Panel type Glass / Backsheet Panel power output warranty (80%) 25 years Panel product warranty 10 years Cell type 166mm Half Cut Monocrystalline PERC SOLAR ARRAY DATA Array configuration 12 module, single string Array maximum power (Pmax) 2677 W MPP voltage (Vmpp) 528 V MPP current (Impp) 5,0 A Open circuit voltage (Voc, ± 5%) 618 V Short circuit current (Isc, ± 5%) 5,2 A SYSTEM GENERAL DATA Inverter Integrated with unit System weight 703 kg System self-consumption per year Approx. 400 kWh Shipping dimensions (mm): Vertical packaging 1651 x 1194 x 2692 Horizontal packaging (special order) 2819 x 1168 x 1854 Total shipping weight 885 kg System warranty 2 years parts and labor NORMATIVE REFERENCES Certificate and compliance with standards CE OPERATIONAL CONDITIONS Operational temperature range -20°C to 55°C Humidity 0-95% (non condensing) Maximum altitude (inverter restricted) 4000 m ELECTRICAL CONNECTIONS Up to 30m (single phase) 3 x 2,5-16.mm² (L1, N, PE) From 30m onwards Accommodate for voltage drop Grid connection (circuit breaker) Single Phase 17ce Phase Three Phase 10 A ** Wind guard 9,75 m cable included REMOTE MONITORING	SYSTEM POWER OUTPUT	
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Three Phase 10 A ** Wind guard 9,75 m cable included	Grid connection (circuit breaker)	
Wind guard 9,75 m cable included	Single Phase	16 A **
	Three Phase	10 A **
REMOTE MONITORING		9,75 m cable included
	REMOTE MONITORING	

DIMENSIONS

ACTIVE AREA



TRACKING, MAX. HEIGHT



SAFETY POSITIONS



- Dependent on geographical location and weather
- Local standards must be followed

Network / LAN cable

Off-grid / remote location

Wireless

Mounting Assembly

INSTALLATION

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.

Cell network enabled kit (optional)

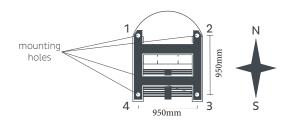
Earth screws, concrete foundation, or a

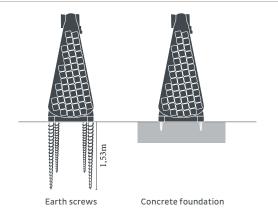
pre-cast concrete pad ***



BOTTOM VIEW

FOUNDATION





INVERTER DATA		
Inverter	Solis S6-GR1P3K	Solis S5-GR3P3K
Nominal frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
DC Input data		
Max. DC voltage	600 V	1100 V
MPPT voltage range	90-520 V	160-1000 V
Max. input current	14,0 A	16,0 A
Number of inputs / MPP trackers	2/2	2/2
AC OUTPUT DATA		
Rated AC power	3000 W	3000 W
Max. AC current	15,7 A	4,7 A
Power factor	>0,99 (0,8 leading - 0,8 lagging)	>0,99 (0,8 leading - 0,8 lagging)
AC connection	Single Phase (L, N, PE) 220V/230V	Three Phase (L1, L2, L3, N, PE), 3 Phase
Grid frequency range	45-65 Hz	45-65 Hz
INVERTER EFFICIENCIES		
Max. efficiency	97,3%	98,3%
CEC efficiency	96,6% (nEU)	97,7% (nEU)
SAFETY		
DC reverse-polarity protection	Yes	Yes
Short circuit protection	Yes	Yes
Output over current protection	Yes	Yes
Surge protection	Yes	Yes
Grid Monitoring	Yes	Yes
Anti-islanding protection	Yes	Yes
Temperature protection	Yes	Yes
Integrated AFCI	Yes (activation required)	Yes (activation required)
NORMATIVE REFERENCES		
Grid connection standards	G98, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE
	0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE	0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE
	206006 / UNE 206007-1, CEI 0-21, C10/11,	206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1,
	NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727,	EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683,
	IEC 60068, IEC 61683, EN 50530, MEA, PEA	EN 50530
Safety/EMC standards	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
GENERAL DATA		
Degree of protection	IP 66	IP 66
Topology	Transformerless	Transformerless
Inverter warranty	5 years	5 years

NOTE: For additional inverter details, see manufacturer's literature.





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 makes **Smartflower** 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 design.



EV Compatible.

Smartflower can be used to charge electric vehicles thanks to easy integration with an external EV charging station. For organizations and companies, EV charging capacity is your "green business card" and is perfect for public spaces, shopping centers, hotels, restaurants, small businesses, and more.



Smartflower +Plus.

With an integrated battery storage system, **Smartflower +Plus** lets you store clean solar energy for when you need it most. That means that even during peak demand times, or when the power is out, your **Smartflower +Plus** will continue to provide you with clean and reliable energy whether you're on or off the grid.

*Smartflower +Plus is currently only available within the USA and Canada.