
From: Ayadsalmons

Sent: 27 June 2022 12:58

To: Lucy Gibson <l.gibson@northyorkmoors.org.uk>

Subject: Smart Flower proposed location

Dear Lucy,

I hope you can see the black dot mark on the scale opposite to latest extension at a distance of 16 meters as requested.

If you request further information please do hesitate to contact me.

Kind regards.

Ayad



0 5 10 20 30 40 50
Metres
Scale: 1:1250

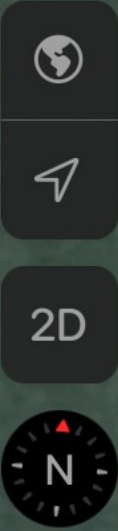


Supplied by: National Map Centre
License number: 100031961
Produced: 06/01/2022
Serial number: 107771

THE OLD FARM HOUSE
THROXENBY
SCARBOROUGH
YO12 5TD

Plot centre co-ordinates: 500443.488933
Download file:
Project name: 303141310

NYMNPA
27/06/2022



Home

LOW ROAD

LOW ROAD

LOW ROAD



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SMARTFLOWER TECHNICAL DATA - 50Hz



SYSTEM POWER OUTPUT

Nominal power output	2.5 kWp
Annual output with 2-axis tracking	4,500–6,500 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 voltage (Isc, ± 5%)	5.2 V

SYSTEM GENERAL DATA

Inverter	Integrated with unit
System weight	703 kg 1,550 lb
System self-consumption per year	Approx. 400 kWh

Shipping dimensions (mm | in):

Vertical packaging	1651 x 1194 x 2692 65 x 47 x 106
Horizontal packaging (special order)	2819 x 1168 x 1854 111 x 46 x 73
Total shipping weight	885 kg 1,950 lbs

System warranty	2 years parts and labor
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NORMATIVE REFERENCES

Certificate and compliance with standards	CE
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OPERATIONAL CONDITIONS

Operational temperature range	-20°C to 55°C -4°F to 131°F
Humidity	0–95% (non condensing)
Maximum altitude (Primo Inverter)	4000 m 13,123 ft
Maximum altitude (Symo Inverter)	2400 m 7,874 ft

ELECTRICAL CONNECTIONS

Up to 100 ft (Primo 3.0)	3 x 2.5–16mm (L1, N, PE)
Up to 100 ft (Symo 3.0)	5 x 2.5–16mm (L1, L2, L3, N, PE)
From 100 ft onwards	Accommodate for voltage drop
Grid connection (circuit breaker)	
Primo 3.0	16 A **
Symo 3.0	10 A **
Wind guard	9.75 m 32 ft cable included

REMOTE MONITORING

Network / LAN cable	CAT 6e or CAT7 with RJ45 connector
Wireless	Wi-Fi enabled kit (optional)
Off-grid / remote location	Cell network enabled kit (optional)

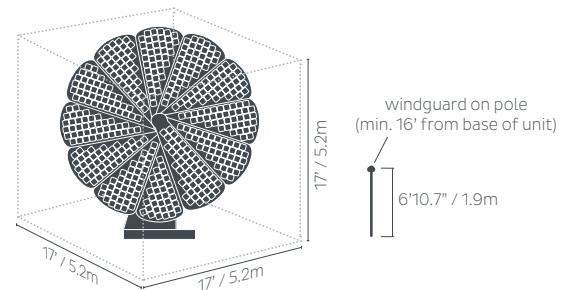
INSTALLATION

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

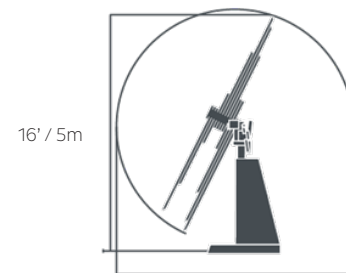
* Dependent on geographical location and weather
 ** Local standards must be followed
 *** Recommendations may vary based on local jurisdiction and soil conditions
 For more information, contact info@smartflowersolar.com

DIMENSIONS

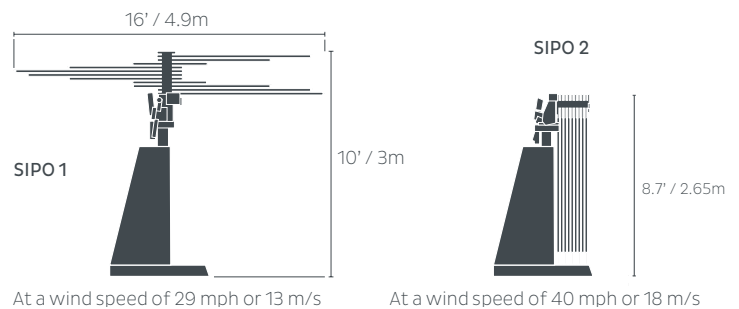
ACTIVE AREA



TRACKING, MAX. HEIGHT

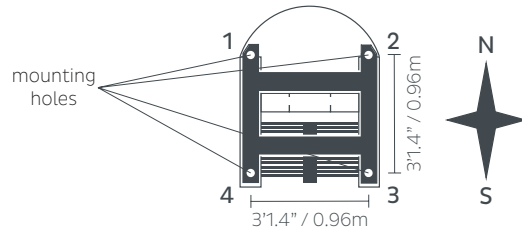


SAFETY POSITIONS

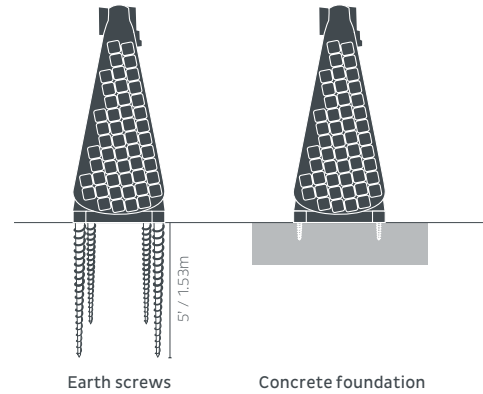


INSTALLATION DRAWINGS

BOTTOM VIEW



FOUNDATION



INVERTER DATA

Inverter	Fronius Primo 3.0-1	Fronius Symo 3.0-3-S
Nominal frequency	50 Hz / 60 Hz	50 Hz / 60 Hz

DC INPUT DATA

Max. DC voltage	1000 V	1000 V
MPPT voltage range	200–800 V	150–800 V
Max. DC work current	12 A	16 A
Number of inputs / MPP trackers	2	1

AC OUTPUT DATA

Rated AC power	3000 VA	3000 VA
Nominal AC current	13 A	4.3 A
Power factor	0.85–1 ind. / cap.	0.7–1 ind. / cap.
AC connection	On-grid (230 V L, N, PE), Single Phase	On-grid (230 V L1, L2, L3, N, PE), 3 Phase
Grid frequency range	45–65 Hz	45–65 Hz

INVERTER EFFICIENCIES

Max. efficiency	98.0%	98.0%
CEC efficiency	96.1% (nEU)	96.2% (nEU)

PROTECTIVE DEVICES

DC reverse polarity protection	Yes	Yes
DC insulation measurement	Yes	Yes
Overload behavior	Operating point shift. Power limitation.	Operating point shift. Power limitation.
DC disconnect	Yes	Yes

NORMATIVE REFERENCES

Certificate and compliance with standards	DIN V VDE 0126-1-1/A1, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 4777-2, AS 4777-3, G83/2, G59/3, CEI 0-21, VDE AR N 4105 2)	ÖVE / ÖNORM E 8001-4-712, DIN V VDE 0126-1-1/A1, VDE AR N 4105, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 3100, AS 4777-2, AS 4777-3, CER 06-190, G83/2, UNE 206007-1, SI 4777, CEI 0-21, NRS 097
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GENERAL DATA

Degree of protection	IP 65	IP 65
Topology	Transformerless	Transformerless
Inverter warranty	2 years (7 years with user registration)	2 years (7 years with user registration)

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

