

Storm 710W Solar Kit Datasheet

Four-panel solar kit for balconies, fences, sheds and garden walls. Everything you need is in the box and the full system installs in under two hours. The 800W microinverter feeds power straight into your home, with real-time monitoring.

Features

1

UK Grid Compliant

3

TÜV Certified

2

TopCon Cells

4

Battery Compatible

Storm 710W Solar Kit

4 x Storm 178W Flexible Solar Panel | Electrical Ratings

Electrical Characteristics (STC)

Parameter	Value
Cell Type	Monocrystalline (TopCon)
Peak Power (Pmax)	178 Wp
Module Efficiency	25%
Power Tolerance	±5%
Open Circuit Voltage (Voc)	34.0 V ±5%
Max. Power Voltage (Vmp)	30.0 V
Short Circuit Current (Isc)	6.23 A ±5%
Max. Power Current (Imp)	5.94 A

STC: 1000 W/m², cell temp. 25°C, AM 1.5

NOCT Performance Values

Parameter	Value
Peak Power (Pmax)	166.6 W
Open Circuit Voltage (Voc)	32.2 V
Max. Power Voltage (Vmp)	28.4 V
Short Circuit Current (Isc)	6.29 A
Max. Power Current (Imp)	5.86 A

NOCT: 800 W/m², ambient 20°C, wind 1 m/s

Temperature Coefficients

Parameter	Value
Pmpp	-0.32%/°C
Voc	-0.26%/°C
Isc	+0.046%/°C

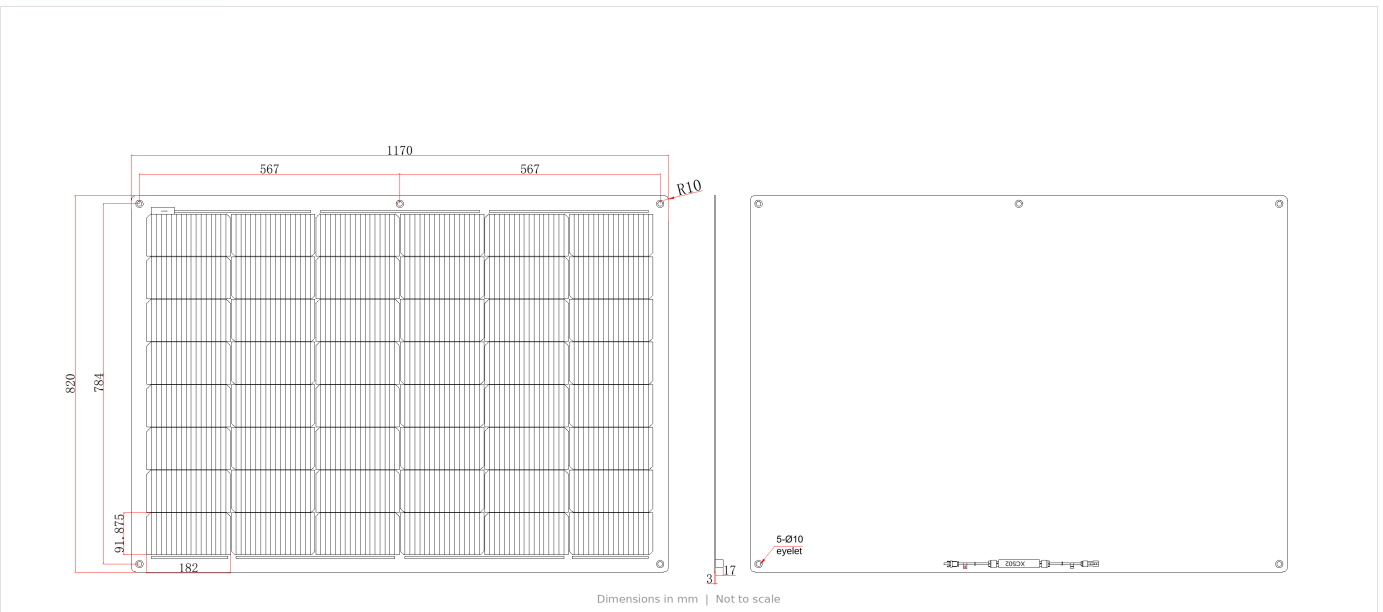
Certification

Parameter	Value
Test Laboratory	TUV NORD (Hangzhou)
Certificate No.	4478025406749-033

Mechanical & General

Parameter	Value
Dimensions (L x W x D)	1170 x 820 x 3 mm
Max. Series Fuse Rating	10 A
Min. Design Load	±1600 Pa
Max. Temperature [T98]	70 °C
Max. System Voltage	1500 V DC
IP Rating	IP67
Bypass Diodes	2 pcs
Cable	600 mm, 2x2.5 mm²

Mechanical Drawing



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Microinverter Specifications | HMS-800W-2T

Microinverter Input (DC)

Parameter	Value
Recommended Module Power	320 - 540 W+
Max. Input Voltage	65 V
MPPT Voltage Range	16 - 60 V
Min. Start Voltage	22 V
Max. Input Current	2 x 14 A
Max. Short Circuit Current	2 x 25 A
Number of MPPTs	2
Inputs per MPPT	1

Microinverter Output (AC)

Parameter	Value
Rated Output Power	800 VA
Rated Output Current	3.48 A
Output Voltage / Range	230 V / 180 - 275 V
Output Frequency / Range	50 Hz / 45 - 55 Hz
Power Factor	> 0.99 (adjustable)
Total Harmonic Distortion	< 3%
Peak Efficiency	96.70%
MPPT Efficiency	99.80%

Mechanical Data

Parameter	Value
Dimensions (W x H x D)	261 x 180 x 35.1 mm
Weight	3.2 kg
Enclosure Rating	IP67 (Outdoor)
Cooling	Natural Convection
Operating Temperature	-40 to +65 °C

Features

Parameter	Value
Communication	Built-in Wi-Fi
Monitoring	S-Miles Cloud / App
Topology	Galvanic Isolation (HF)
Safety	Rapid Shutdown
Night Consumption	< 50 mW

Kit Contents

Component	Qty	Notes
Storm 178W Flexible Solar Panel	4	712 Wp total
HMS-800W-2T Microinverter	1	2 MPPT, built-in Wi-Fi
Microinverter Stand	1	Angled mounting support
Y-Branch DC Connector	2	Parallel panel pairs
AC Connection Cable	1	5 m or 10 m
Double Pole Isolator Fused Spur	1	Licensed installation
Reusable Cable Ties	✓	Panel mounting
Disconnect Tools (A & B)	✓	Maintenance
Solar Warning Labels	✓	BS 7671 compliant
Installation Guide	1	Step-by-step instructions

Installation must comply with UK wiring regulations including G98 and BS 7671.

All electrical work must be carried out by an installer registered with a Competent Person Scheme (NICEIC/NAPIT).

A bi-directional RCBO is required for the dedicated radial circuit (not included).