

RUS-480H8NB-120

Electrical Characteristics (STC)

Maximum Power at STC (Pmp)	480
Maximum Power Voltage (Vmp)	37.13
Maximum Power Current (Imp)	12.93
Open Circuit Voltage (Voc)	43.68
Short Circuit Current (Isc)	13.65
Module Efficiency at STC (nm)	22.18%

STC; 1000W/m² irradiance, 25°C cell temperature, AM 1.5

Electrical Characteristics (NOCT)

Maximum Power at STC (Pmp)	363.3
Maximum Power Voltage (Vmp)	35.74
Maximum Power Current (Imp)	10.15
Open Circuit Voltage (Voc)	41.54
Short Circuit Current (Isc)	10.74

STC; 800W/m² irradiance, Ambient temperature 20°. Wind Speed 1m/s

Mechanical Specifications

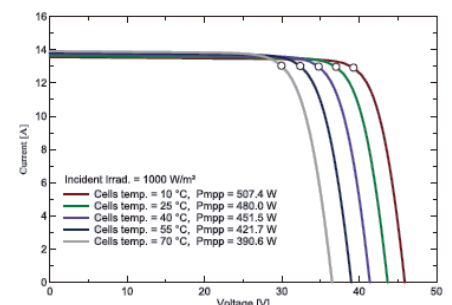
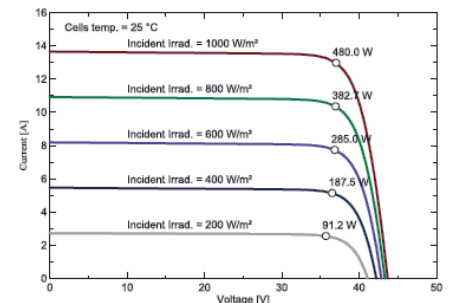
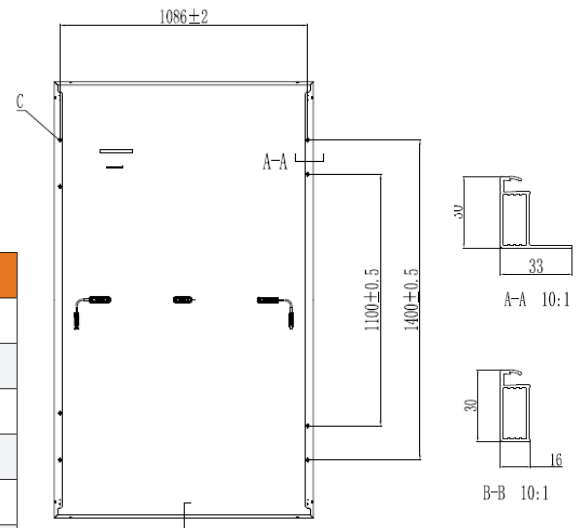
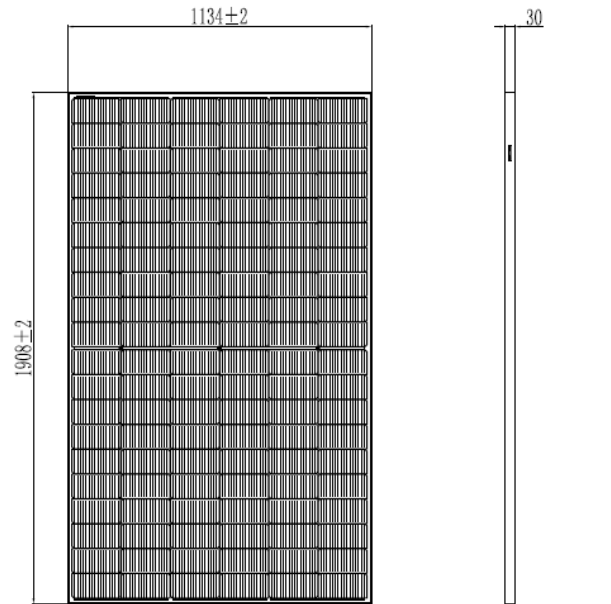
Solar Cells	N-Type TOPCon Monocrystalline 182mm x 91mm
External Dimensions	1908mm x 1134mm x 30mm (L x W x H)
Front Glass	High Transmission Glass 3.2mm
Weight	23KG (±3%)
Output Cable	4mm ² , cable length 1200mm
Junction Box	IP 68 (3 Diodes)
Frame	Anodized Aluminium Alloy
Connector	Staubli MC4 EVO 2A

Operating Properties

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	±3%

Temperature Coefficient

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temp.	45 (±2°C)



RussFast Solar Mounting System Characteristics

Mounting System Characteristics	
Range of Permissible Roof Pitch (degrees)	To suit minimum and maximum pitch of tile profile used
Compatible Roof Coverings	Tiles
Roofing Substrate For certified wind uplift resistance in sound timber	Tested with 25 mm X 50 mm wooden battens
Further notes on fixing (where relevant)	Mounting frame installation components listed
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	2.07 kPa (with four single clamps holding each module) 3.44 kPa (with four pairs of clamps holding each module)
Partial (safety) factor(s)	1.44 (with four single clamps holding each module) 1.1 (with four pairs of clamps holding each module)
Fire Classification	BROOF(t4) (when used with tested and approved modules)

Mounting Frame Installation Components
Flashing Hook
Middle Clamp Hxx - Steel - Black - In Roof
End Clamp Hxx - Steel - Black - In Roof
Integration Screw - 6.3mmx45mm - Grey
Integration Screw - 6.3mmx60mm - Black
Left Wedge for Simple Clamp - In Roof
Right Wedge for Simple Clamp - In Roof
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)
Flexalu Waterproof Strip Black 330mm (5 m roll)
Flexalu Waterproof Strip Black 500mm (5 m roll)
Lateral Flashing - Black