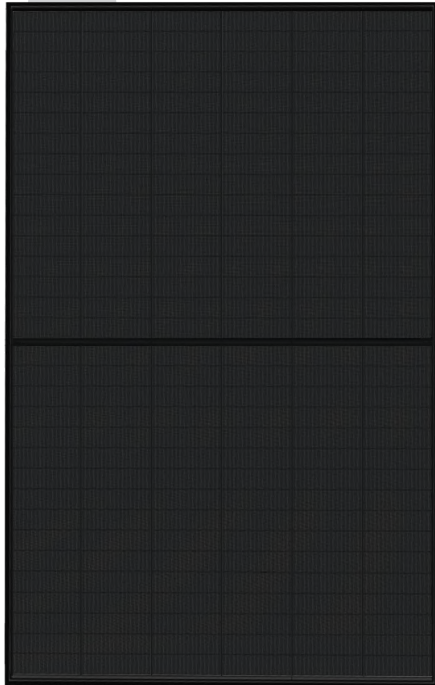


Ultra T 3.0

QUARTER-CUT N-TYPE TOPCon
BLACK PRO MONOFACIAL DOUBLE-GLASS MODULE
TYPE: STP-NT11/48QGSF



465-485W **24.3%**
POWER OUTPUT MAX EFFICIENCY



TOPCon 3.0

The advanced cell technology with edge passivation and polyfinger, etc, leads to ultra-high power output and efficiency



Multi-cut design

Drastically reduces the internal current of the cell, ensuring lower power loss and minimized hot spot risk



Withstand harsh environments

Reliable quality that makes module resistant even to high temperatures, salt water and ammonia



Superior load-bearing capability

Module certified to withstand **5400 Pa** front side max static test load and **2400 Pa** rear side max static test load *



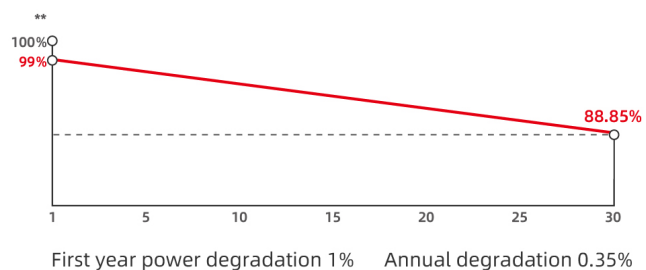
Tier1
Bloomberg
NEW ENERGY FINANCE

ISO 14001 Environment Management System
ISO 45001 Occupational Health and Safety
ISO 9001 Quality Management System
SA 8000 Social Responsibility Standards
IEC TS 62941 Guideline for Module Design

IEC 61701 Salt-mist Certification
IEC 62716 Ammonia Certification
IEC 60068-2-68 Dust and Sand
IEC 61730-2 (UL790) Fire Class C



30 years of linear warranty
25 years of product warranty



* Please refer to Suntech Standard Module Installation Manual for details.

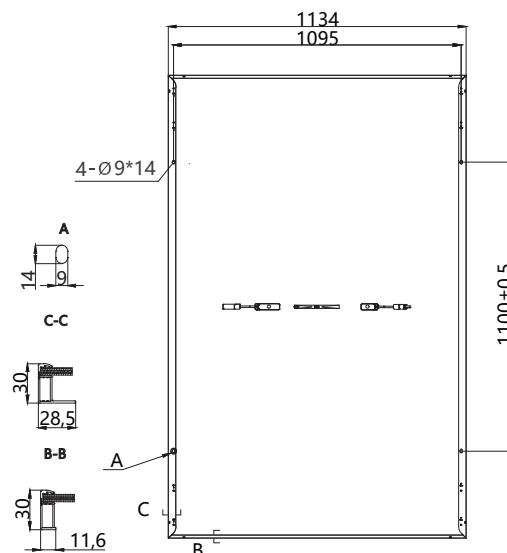
*** WEEE only for EU market.

** Please refer to Suntech Limited Warranty for details.

**** Suntech reserves the right to the final.

Mechanical Characteristics

Solar Cell	N-type monocrystalline silicon
No. of Cells	192 (6 x 32)
Dimensions	1762 × 1134 × 30 mm (69.4 × 44.6 × 1.2 inches)
Weight	21.0 kg (46.30 lbs.)
Front Glass	1.6 mm (0.063 inches), anti-reflective coating
Back Glass	1.6 mm (0.063 inches), heat strengthened glass
Output Cables	4.0 mm ² , (-) 1300 mm (+) 1300 mm in length or customized length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C to +70 °C
Maximum System Voltage	1500 V DC (IEC)
Connectors	STP-XC4 (Standard)/MC4-EVO2A (Optional)
Maximum Series Fuse Rating	35 A
Power Tolerance	0 ~ + 3%
Frame	Anodized aluminum alloy frame
Packing Configuration	36 pieces per pallet 936 pieces per container /40'HC 1790 × 1120 × 1260 mm per pallet 802 kg per pallet



Electrical Characteristics (STC)

Maximum Power (P _{max} /W)	485	480	475	470	465
Optimum Operating Voltage (V _{mp} /V)	30.78	30.60	30.43	30.26	30.08
Optimum Operating Current (I _{mp} /A)	15.76	15.69	15.62	15.55	15.47
Open Circuit Voltage (V _{oc} /V)	36.63	36.58	36.53	36.48	36.43
Short Circuit Current (I _{sc} /A)	16.57	16.50	16.43	16.36	16.29
Module Efficiency (%)	24.3	24.0	23.8	23.5	23.3

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Measuring tolerance is within +/- 3%;

Temperature Characteristics

Temperature Coefficient of P _{max}	-0.26%/°C
Temperature Coefficient of V _{oc}	-0.22%/°C
Temperature Coefficient of I _{sc}	0.043%/°C

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly . All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

Graphs Current-Voltage & Power-Voltage (465W)

