

# Jltra V Pro Plus

# HALF-CELL N-TOPCon BIFACIAL MODULE

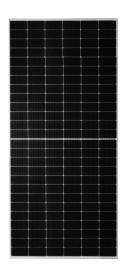
TYPE: STPXXXS - C78/Nmh+

**POWER OUTPUT** 

**MAX EFFICIENCY** 

600-620W

22.4%



#### **Features**



#### High module conversion efficiency

Module efficiency up to 22.4% achieved through advanced cell technology and manufacturing process



#### Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



# Suntech current sorting process

Up to 2% power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



# Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



## Excellent weak light performance

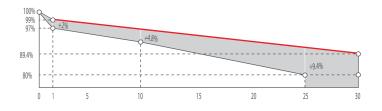
More power output in weak light condition, such as cloudy, morning



# Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

# Industry-leading Warranty \*\*



- ◆ First year power degradation: 1%
- ◆ Annual degradation: 0.40%
- ◆ Product warranty: 12 years
- ♦ linear warranty: 30 years

# Certifications and Standards

IEC 61730 IEC 61215 SA 8000 Social Responsibility Standards ISO 9001 Quality Management System ISO 14001 Environment Management System ISO 45001 Occupational Henlth and Safety IEC TS 62941 Guideline for module design qualification and type approvel











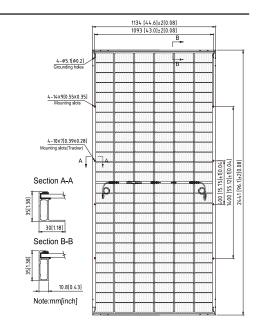
Please refer to Suntech Standard Module Installation Manual for details.
Please refer to Suntech Limited Warranty for details.



# Ultra V Pro STPXXXS - C78/Nmh+ 600-620W

### **Mechanical Characteristics**

Solar CellN-type Monocrystalline silicon 182 mmNo. of Cells156 (6 × 26)Dimensions2441 × 1134 × 35 mm (96.1 × 44.6 × 1.4 inches)Weight35.1 kgs (77.4 lbs.)Front \ Back Glass2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glassOutput Cables(-) 350 mm and (+) 160 mm in length or customized lengthJunction BoxIP68 rated (3 bypass diodes)Operating Module Temperature-40 °C to +85 °CMaximum System Voltage1500 V DC (IEC)Maximum Series Fuse Rating25 APower Tolerance0/+5 WRefer. Bifaciality Factor(80 ± 5)%Packaging box dimensions (mm) : 2470×1130×1269 Packaging box weight (kg) : 1163 31 Pieces per pallet			
Dimensions         2441 × 1134 × 35 mm (96.1 × 44.6 × 1.4 inches)           Weight         35.1 kgs (77.4 lbs.)           Front \ Back Glass         2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass           4.0 mm², (-) 350 mm and (+) 160 mm in length or customized length           Junction Box         IP68 rated (3 bypass diodes)           Operating Module Temperature         -40 °C to +85 °C           Maximum System Voltage         1500 V DC (IEC)           Maximum Series Fuse Rating         25 A           Power Tolerance         0/+5 W           Refer. Bifaciality Factor         (80 ± 5)%           Packaging box dimensions (mm): 2470×1130×1269 Packaging box weight (kg): 1163	Solar Cell	N-type Monocrystalline silicon 182 mm	
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Refer. Bifaciality Factor (80 ± 5)%  Packaging box dimensions (mm): 2470×1130×1269 Packaging box weight (kg): 1163	Maximum Series Fuse Rating	25 A	
Packaging box dimensions (mm): 2470×1130×1269 Packaging box weight (kg): 1163	Power Tolerance	0/+5 W	
Packing Configuration Packaging box weight (kg): 1163	Refer. Bifaciality Factor	(80 ± 5)%	
558 Pieces per container / 40 ′ HC	Packing Configuration	Packaging box weight (kg) : 1163 31 Pieces per pallet	



 $\textbf{Electrical Characteristics} \quad \text{stc: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%; Tolerance of Pmax is within +/- 3$ 

Module Type	STP <b>620</b> S-	C78/Nmh+	STP <b>615</b> S-	C78/Nmh+	STP <b>610</b> S-	C78/Nmh+	STP <b>605</b> S-0	C78/Nmh+	STP <b>600</b> S-	C78/Nmh+
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	620	473.2	615	469.3	610	465.6	605	461.6	600	457.8
Optimum Operating Voltage (Vmp/V)	46.43	43.0	46.25	42.8	46.07	42.6	45.89	42.4	45.71	42.3
Optimum Operating Current (Imp/A)	13.36	11.02	13.30	10.97	13.25	10.93	13.19	10.88	13.13	10.83
Open Circuit Voltage (Voc/V)	54.86	51.9	54.68	51.7	54.50	51.5	54.32	51.4	54.14	51.2
Short Circuit Current (Isc/A)	14.37	11.59	14.31	11.54	14.25	11.50	14.19	11.45	14.13	11.40
Module Efficiency (%)	22	2.4	2:	2.2	2:	2.0	2	1.9	2	1.7

For tracker installation, please turn to Suntech for mechanical load information.

# Different Rearside Power Gain Reference to 6105 Front

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Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	640.5	701.5	762.5
Optimum Operating Voltage (Vmp/V)	46.1	46.1	46.2
Optimum Operating Current (Imp/A)	13.91	15.24	16.56
Open Circuit Voltage (Voc/V)	54.5	54.5	54.6
Short Circuit Current (Isc/A)	14.96	16.39	17.81
Module Efficiency (%)	23.1	25.3	27.5

# **Temperature Characteristics**

Nominal Module Operating Temperature (NMOT)	42 ± 2 ℃
Temperature Coefficient of Pmax	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	0.046%/°C

# Graphs

