Ultra V Pro Plus

HALF-CELL N-TOPCon BIFACIAL MODULE

TYPE: STPXXXS - C78/Nmh+

POWER OUTPUT 600-620W

MAX EFFICIENCY

Features

High

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

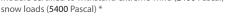


Suntech current sorting process

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





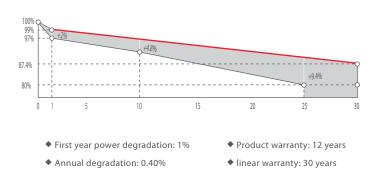
Excellent weak light performance

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



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

Industry-leading Warranty **



Certifications and Standards

CE 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 approval







400 [55.

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

Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon 182 mm			[44.6]±2[0.08] [43.0]±2[0.08]	
No. of Cells	156 (6 × 26)	_	-	B	
Dimensions	2441 × 1134 × 35 mm (96.1 × 44.6 × 1.4 inches)				<u> </u>
Weight	35.1 kgs (77.4 lbs.)	Grounding holes	·	В	
Front \ Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass				
Output Cables	4.0 mm², (-) 350 mm and (+) 160 mm in length or customized length	- 4_14x9[0.55x0.35] Mounting alots			
Junction Box	IP68 rated (3 bypass diodes)	4-10x7[0.39x0.28] Mounting slats(Tracker)			+
Operating Module Temperature	-40 °C to +85 °C	- • [
Maximum System Voltage	1500 V DC (IEC)	- Section A-A			
Maximum Series Fuse Rating	25 A				
Power Tolerance	0/+5 W	- 22[138]			
Refer. Bifaciality Factor	(80 ± 5)%	30(1.18)			
Packing Configuration	Packaging box dimensions (mm) : 2470×1130×1269 Packaging box weight (kg) : 1163 31 Pieces per pallet 558 Pieces per container / 40 'HC	Section B-B			
		Note:mm[inch]	·		

Electrical Characteristics 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%;

Module Type	STP 620 S-(C78/Nmh+	STP 615 S-	C78/Nmh+	STP 610 S-	C78/Nmh+	STP 605 S-(C78/Nmh+	STP 600 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	22	2.2	2	2.0	2	1.9	2	1.7

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

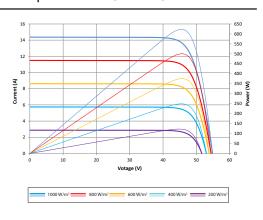
Different Rearside Power Gain Reference to 6105 Front

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 °C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C

Graphs Current-Voltage & Power-Voltage (6205)



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.