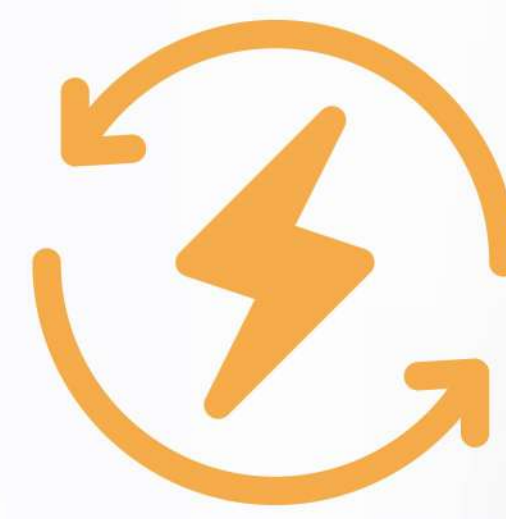
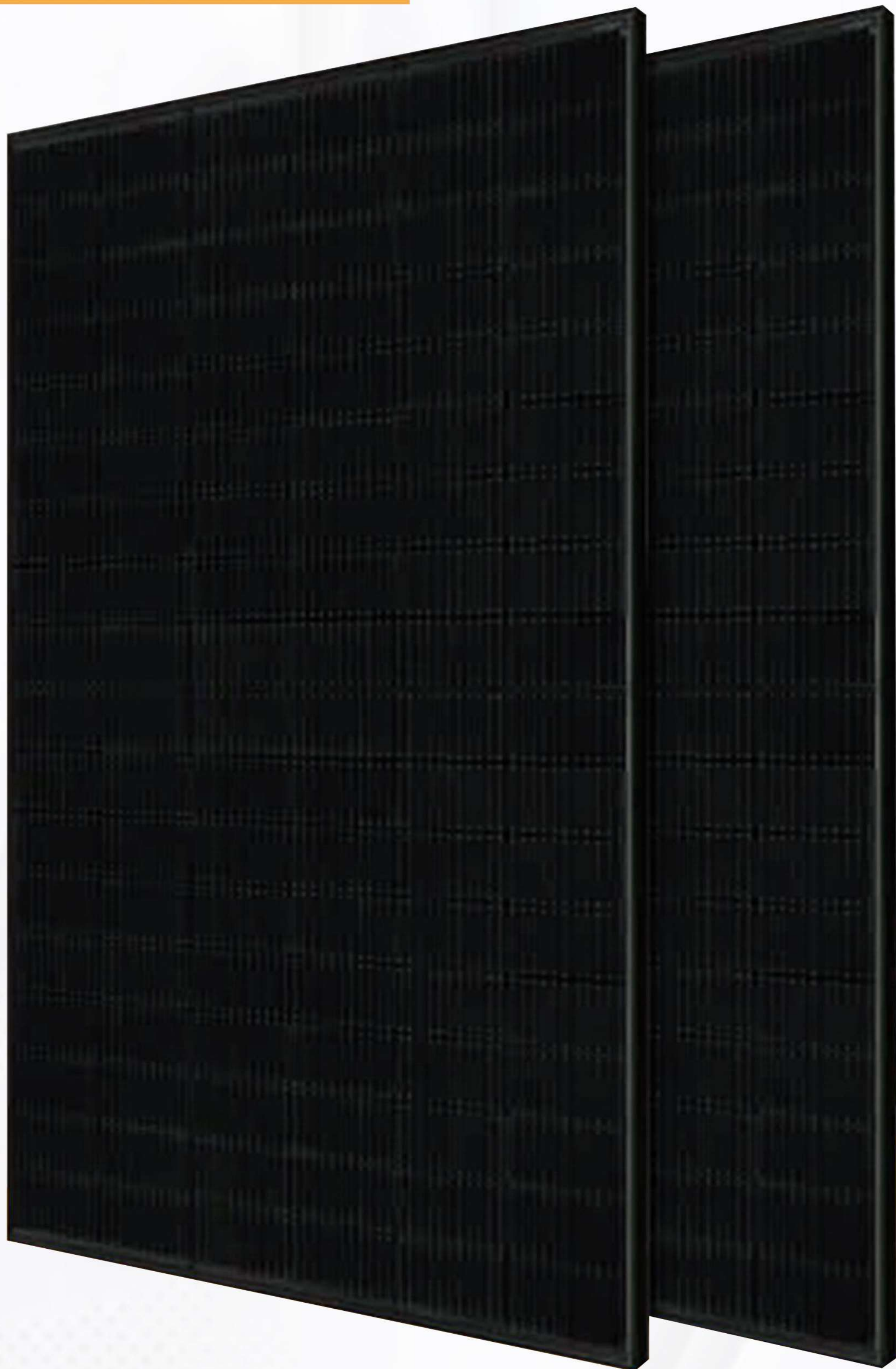


WS54M10



395-415W



Superior aesthetics, all-black design



Robust product design for harsh weather conditions



Improved performance in shaded areas



Designed & engineered in the U.S, Made in Dubai

Certifications:



Headquarter address

📍 2401 Fountain View Dr, #464
Houston, TX 77057

📞 (832) 291-3444

✉️ info@winnsolarllc.com



Manufactured at:

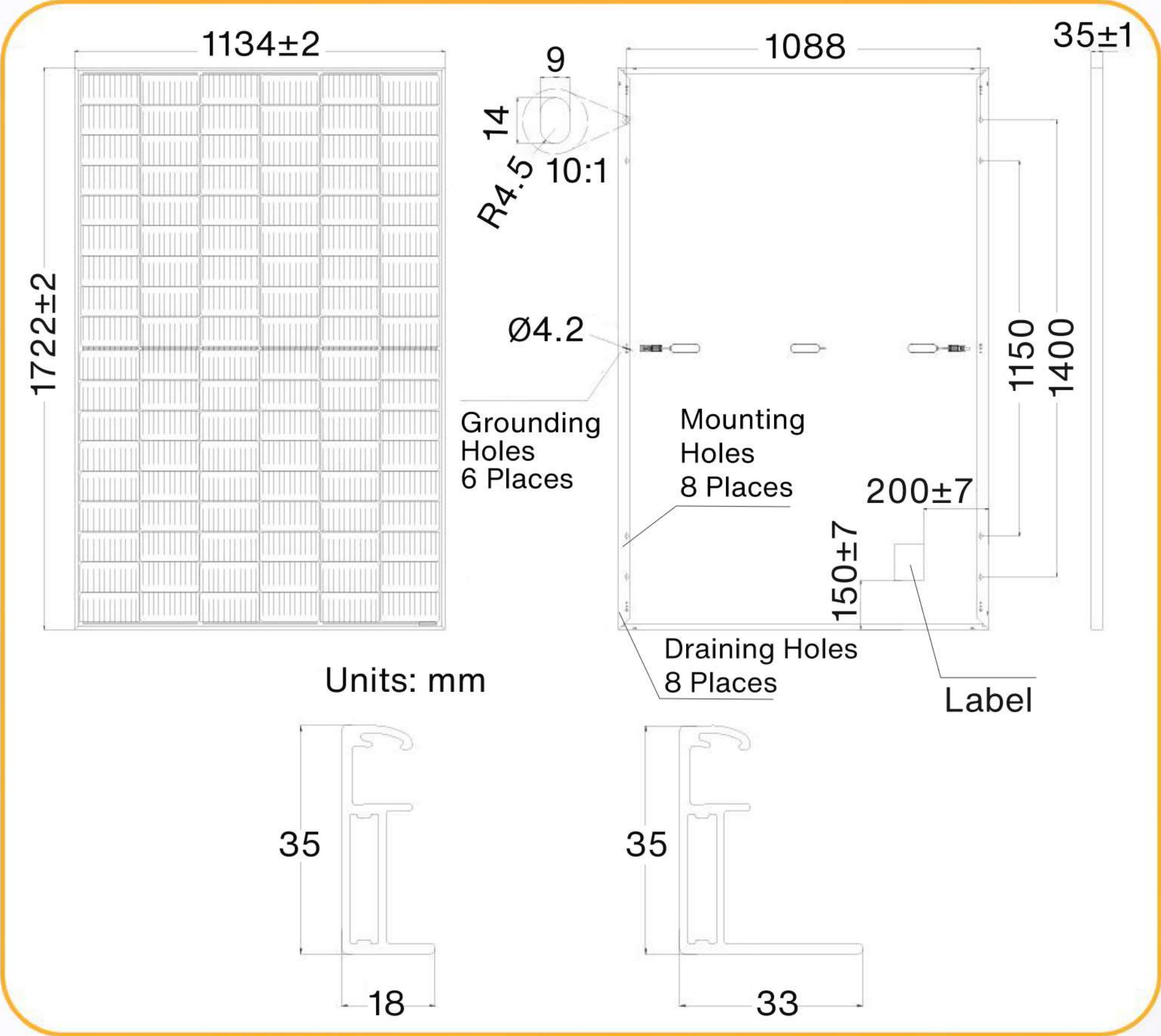
📍 2401 Fountain View Dr, #464
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MECHANICAL SPECIFICATIONS

Cell Type	Mono 182x91mm
Weight	21.5kg
Dimensions	1722x1134x35mm (LxWxT)
Cables	Portrait 300mm/Landscape 1200mm/Customized
No. of Cells	108 (6x18)
Glass	3.2mm (0.13inches) AR Coating Tempered Glass
Junction Box	IP68, 3/6 Bypass Diodes
Packing	31pcs/carton, 806pcs/40HQ
Connector Type	Staubli Electrical Connectors AG (PV-KST4-EVO2/XY_UR)
Frame	Anodized Aluminium Alloy
Cable Cross-section Size	TUV: 4mm2 (0.006inches2)/UL: 12AWG



Length: ±2mm, Width: ±2mm | Height: ±1mm, Pitch: ±2mm

ELECTRICAL SPECIFICATIONS

Module Type	WS -395W-M54H -M10		WS-400W-M54H -M10		WS-405W-M54H -M10		WS-410W-M54H -M10		WS -415W-M54H -M10	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Open-Circuit Voltage (Voc/V)	36.90	34.82	36.98	34.93	37.06	34.96	37.14	35.04	37.31	35.22
Maximum Power Voltage (Vmp/V)	30.32	28.26	30.42	28.40	30.52	28.54	30.62	28.72	30.79	28.87
Short-Circuit Current (Isc/A)	13.71	11.06	13.78	11.13	13.85	11.18	13.92	11.23	14.01	11.32
Maximum Power Current (Imp/A)	13.03	10.40	13.15	10.48	13.27	10.54	13.39	10.62	13.48	10.69
Maximum Power (Pmax/W)	395	294	400	298	405	301	410	305	415	309
Module Efficiency (%)	20.23%		20.49%		20.74%		21.00%		21.26%	
Power Tolerance	±3%									
Tolerance of Rating Pmax/Isc/Voc %	±3%/±4%/±3%									

STC: Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5 NOCT: Irradiance at 800W/m2, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s
Binning Tolerance: 0 to +5W

MAXIMUM RATINGS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Safety Class	II
Fire Rating	Class C
Conductivity at Ground	≤0.1Ω
Resistance	≥100MΩ

TEMPERATURE CHARACTERISTICS

NOCT Temperature	45°C±2°C
Temprature Coefficient (Pmax)	-0.37%/°C
Temprature Coefficient (Voc)	-0.29%/°C
Temprature Coefficient (Isc)	0.05%/°C

PERFORMANCE WARRANTY

Max Power Degradation 0.5%/Year
97.5% At The End of 1 st Year
93% At The End of 10 th Year
85.5% At The End of 25 th Year

CURVE & TEMPERATURE DEPENDENCE

