

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

UL



PERFORMANCE WARRANTY

KEY FEATURES



12BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss
Ga doped wafer, attenuation <2% (1st year) / $\leq 0.45\%$ (Linear)



Industry Leading High Yield

Bifacial PERC cell technology,
5%-25% more yield depends on different conditions



Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



Wider Application

No water-permeability and high wear-resistance,
can be widely used in high-humid, windy and dusty area



IP68 Junction Box

High waterproof level

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pma /W)	585	437	590	441	595	444	600	448	605	452
Operating Voltage (Vmpp/V)	34.1	32.0	34.3	32.2	34.5	32.4	34.7	32.6	34.9	32.7
Operating Current (Impp/A)	17.16	13.65	17.21	13.69	17.25	13.72	17.30	13.77	17.34	13.80
Open-Circuit Voltage (Voc/V)	41.0	38.7	41.2	38.9	41.4	39.1	41.6	39.3	41.8	39.4
Short-Circuit Current (Ic/A)	18.25	14.72	18.30	14.75	18.34	14.78	18.39	14.82	18.43	14.85
Module Efficiency (%)	20.70		20.80		21.00		21.20		21.40	

STC: Irradiance 1000W/m², Specular AM1.5, Module Temperature 25°C, Power loss due to temperature: 0 +5W, Temperature coefficient of Pma : -3%
NMOT: Irradiance 800W/m², Specular AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

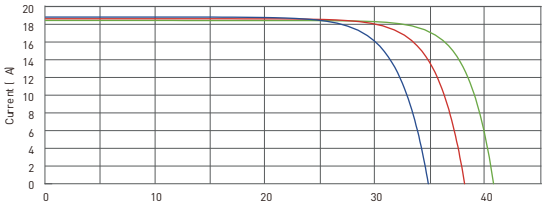
REAR SIDE POWER GAIN(REFERENCE TO 595W FRONT)

Pma gain	5%	10%	15%	20%	25%
Pma /W	625	655	684	714	744
Vmpp/V	34.50	34.50	34.50	34.50	34.50
Impp/A	18.11	18.98	19.84	20.70	21.56
Voc/V	41.30	41.30	41.30	41.30	41.30
Ic/A	19.23	20.14	21.06	21.97	22.89

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (12Busbar)
No. of Cell	120pcs in series (6*20)
Module Dimension	2172*1303*35mm (85.51*51.30*1.38inches)
Weight	34.8kg (76.72lbs.)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Open Cable	4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connector	T01/LJQ-3-CSY/MC4/MC4-EV02

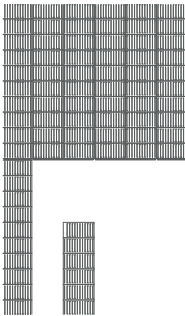
I-V CURVE



APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	35A
Safe Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Reference Bifaciality Factor	70%±5%

TECHNICAL DRAWINGS



TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pma	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Ic	+0.046%/°C
Nominal Module Operating Temperature (NMOT)	43±2°C

PACKING CONFIGURATION

Pieces per Pallet	31	31(USA)
Pieces per Container (40 HQ)	527	527



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