

MB Half-cut Cell Technology

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

Industry Leading High Yield

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

Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



Electrical Characteristics

Operating Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	395	294	400	298	405	302	410	306	415	310
Operating Voltage (Vmpp/V)	30.85	28.8	31.05	29.0	31.24	29.2	31.43	29.3	31.64	29.6
Operating Current (Impp/A)	12.81	10.23	12.89	10.30	12.97	10.36	13.05	10.42	13.13	10.48
Circuit Voltage (Voc/V)	36.75	34.6	37.00	34.8	37.25	35.1	37.50	35.3	37.75	35.5
Circuit Current (Isc/A)	13.69	11.04	13.78	11.11	13.86	11.17	13.94	11.24	14.02	11.30
Module Efficiency (%)	20.22		20.48		20.73		21.00		21.25	

Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
 Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

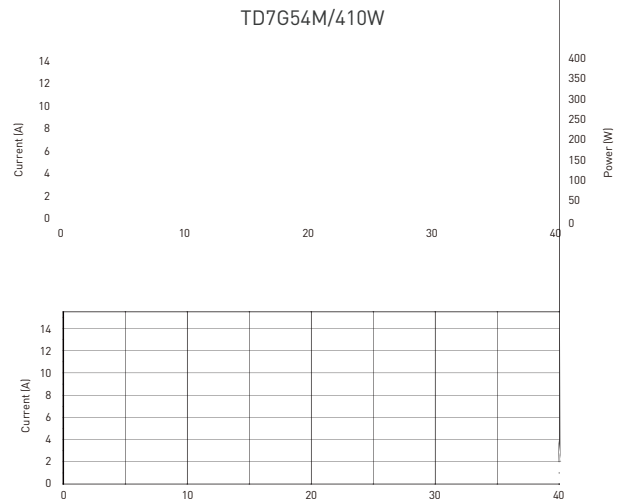
Reference Power Gain(Reference to 410W Front)

Gain	5%	10%	15%	20%	25%
Power	431	451	472	492	513
Vmpp	31.43	31.43	31.43	31.43	31.43
Impp	13.70	14.36	15.01	15.66	16.31
Voc	37.50	37.50	37.50	37.50	37.50
Isc	14.65	15.35	16.04	16.74	17.44

Mechanical Characteristics

Material	Monocrystalline Silicon (10Busbar)
Cells	108pcs in series (6*18)
Dimensions	1722*1134*30mm (67.80*44.65*1.18inches)
Weight	25.5kg (56.22lbs)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Protection	IP68, 3 Bypass Diodes
Wiring	4mm ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Model	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	30A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	70%±5%

Temperature Characteristics

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.048%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

Packing Configuration

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	936	720



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