

### 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/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

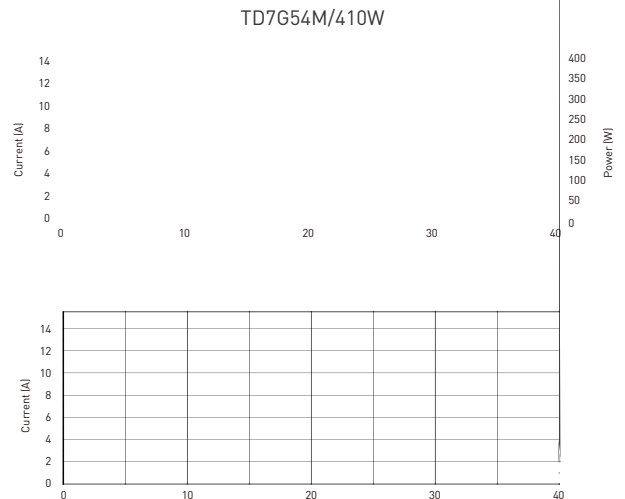
## Reference Power Gain (Reference to 410W Front)

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 <sup>2</sup> (IEC), 12AWG(UL) 350mm(+), 250mm(-) or Customized Length
Accessories	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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