

# BIPRO

## 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

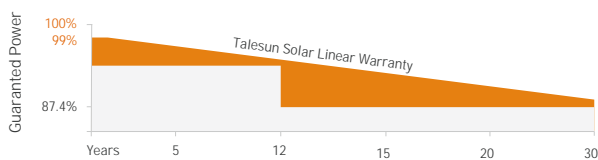


## PERFORMANCE WARRANTY

12 Years  
Quality Assurance

30 Years  
Power Output Guarantee

Linear Performance Warranty



## Excellent Anti-PID Performance

Anti

192 hours 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

Parameter	620	473	625	478	630	482	635	486	640	490
Open-circuit voltage (V <sub>oc</sub> )	36.20	33.90	36.40	34.30	36.60	34.50	36.80	34.70	37.00	35.00
Short-circuit current (I <sub>sc</sub> )	17.13	13.94	17.19	13.95	17.22	13.96	17.26	13.98	17.30	14.00
Maximum power (P <sub>max</sub> )	43.20	40.90	43.50	41.20	43.90	41.60	44.20	41.90	44.50	42.10
Maximum power current (I <sub>mp</sub> )	18.18	14.65	18.21	14.68	18.24	14.70	18.27	14.73	18.30	14.75
Temperature coefficient (%)	21.90	22.10	22.30	22.40	22.60	22.80	23.00	23.20	23.40	23.60

Standard test conditions: 1000 W/m<sup>2</sup>, A 1.5, 25°C, 1m air mass, 1.5m air mass, 20% relative humidity, 1m/s wind speed, 3% tilt.

## REAR SIDE POWER GAIN(REFERENCE TO 630W FRONT)

Parameter	5%	10%	15%	20%	25%
Open-circuit voltage (V <sub>oc</sub> )	662	693	725	756	788
Short-circuit current (I <sub>sc</sub> )	36.60	36.60	36.60	36.60	36.60
Maximum power (P <sub>max</sub> )	18.08	18.94	19.80	20.66	21.53
Maximum power current (I <sub>mp</sub> )	43.90	43.90	43.90	43.90	43.90
Maximum power voltage (V <sub>mp</sub> )	19.15	20.06	20.98	21.89	22.80

## MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (18Busbar)
Number of Cells	120pcs in series (6*20)
Dimensions (mm)	2172*1303*33mm (85.51*51.30*1.30inches)
Weight	34.9kg (76.94lbs.)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Diodes	IP68, 3 Bypass Diodes
Wiring	4mm <sup>2</sup> (IEC), 12AWG(UL) 350(+),280(-)mm in Length or Customized Length
Mounting	T01/LJQ-3-CSY/MC4/MC4-EVO2

## APPLICATION CONDITIONS

Operating Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Operating Current	35A
Operating Class	Class
Operating Pressure	Front side 5400Pa, Back side 2400Pa
Operating Humidity	80%±5%

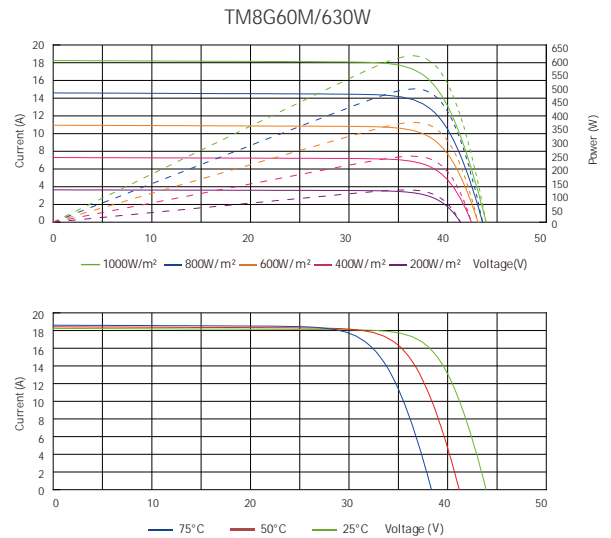
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient (V <sub>oc</sub> )	-0.29%/°C
Temperature Coefficient (I <sub>sc</sub> )	-0.24%/°C
Temperature Coefficient (P <sub>max</sub> )	+0.043%/°C
Operating Temperature	43±2°C

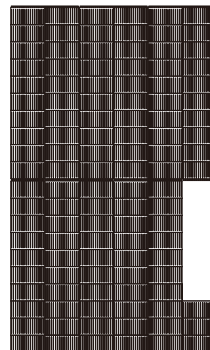
## PACKING CONFIGURATION

Number of Panels	33	33(USA)
Number of Panels (40%)	594	528

## Electrical Performance



## TECHNICAL DRAWINGS



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.