

TPL SOLAR MODULE

TPL-144Series Mono 380W-410W
Half Cut Cells Series



EU Brand & Warranty



High Efficiency

High module conversion efficiency (up to 20.20%), through half-cell innovative manufacturing technology.



Low-Light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in lowe-light environments



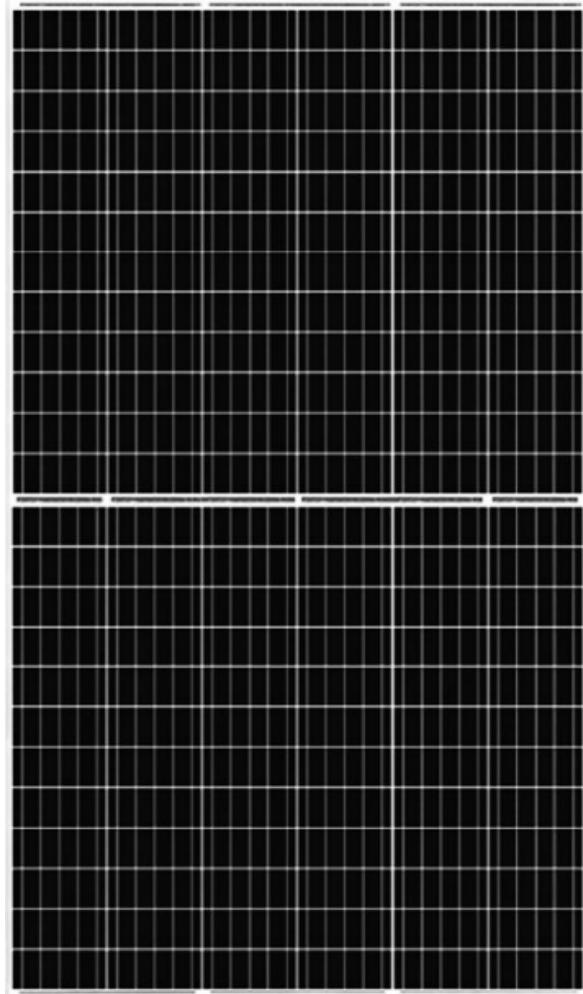
Severe Weather Resilience

Certified to withstand : wind Load (2400 Pascal) And Snow Load (5400 Pascal)



5 Busbar Square Solar Cell

5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance.



Superior Quality Control

Full automatic production line

ISO9001:2008 quality management system

100% three times EL and appearance inspection



Plus tolerance

0+5W positive power tolerance guarantees the highest system efficiency and yield stability



Performance Guarantee

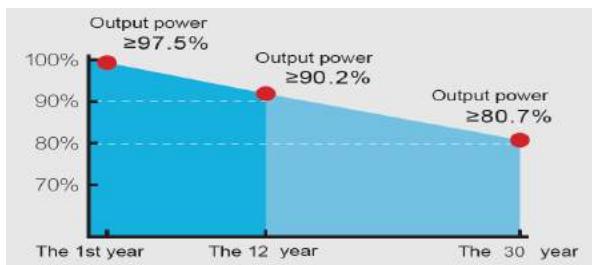
With the linear performance guarantee of 30 years and a product warranty of 12 years, TPL Solar guarantees highest investment security and warranty claims.



Certificates

TPL Solar modules are CE and TUV certified. Meet Australia CEC standard and on CEC list. Fire safety Class C

Performance Assurance



EN 61215:2005

EN 61730-1:2007/A2:2013

EN 61730-2:2007/A1:2012



**TPL ENERGY CO., LIMITED
(TPL SOLAR)**

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TECHNICAL DATA

TPL-144Series 380W-410W

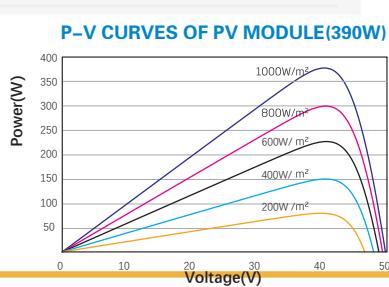
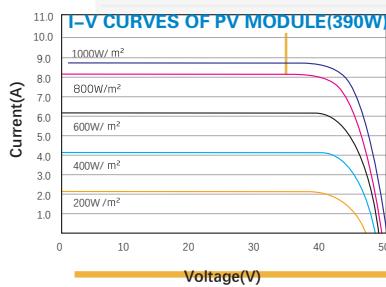
ELECTRICAL DATA

		TPL380M-144HC	TPL390M-144HC	TPL400M-144HC	TPL410M-144HC
Nominal power	Pm (Wp)	380	390	400	410
Open circuit voltage	Voc (V)	48.12	49.72	50.43	51.23
Short-circuit current	Isc (A)	9.98	10.09	10.18	10.28
Voltage at max power	Vmp (V)	39.60	40.60	41.12	41.72
Current at max power	Imp (A)	9.59	9.62	9.73	9.83
Module efficiency	(%)	18.80	19.20	19.70	20.20
Cells efficiency	(%)	22.57	23.27	24.07	26.07
System Voltage	(V)			1500	
Temp. coefficient Voc	(%; °C)			-0.36	
Temp. coefficient Isc	(%; °C)			0.06	
Temp. coefficient Pm	(%; °C)			-0.36	
Operating temp.	(°C)			-40 to +85	
NOCT	(°C)			45±2	

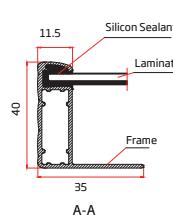
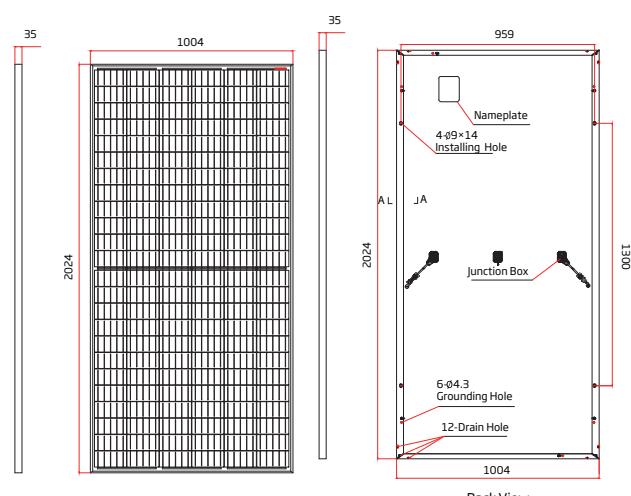
The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

TECHNICAL DATA

Junction box	IP68 Rated
Wire cross section (Ø mm ²)	4 0
Dimensions (L x W x H, mm)	2024 x1004x 40
Weight (kg)	22.5
No of cells / assembly	144 / 6x 24
Type of cells	Mono-crystalline
Hail resistance	Max. Ø 28 mm at 23 m/s
Wind load	2400Pa / 244kg / m ²
Mechanical load	5400Pa / 550kg / m ²
Cables	Portrait:N 140mm/P 285mm Landscape: N 1400mm/P 1400mm Photovoltaic Technology Cable 4.0 m ²



DIMENSIONS



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