



Certificate of Compliance

Certificate: 2254322

Master Contract: 248189

Project: 70044337

Date Issued: November 14, 2015

Issued to: Trina Solar Ltd
2 Trina Rd
PV Park New District
Changzhou, Jiangsu 213031
China

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Tom Yang
Issued by: Tom Yang

PRODUCTS

CLASS – 5311 90 - POWER SUPPLIES - Photovoltaic Modules and Panels
Certified to US Standards
CLASS 5311 10 - POWER SUPPLIES - Photovoltaic Modules and Panels



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Maximum System Voltage(V)	Model Series	Power(W)
600	TSM-XXXPA14A TSM-XXXPA14A.05 TSM-XXXPA14A.08	XXX= 275 to 320
	TSM-XXXPA14 TSM-XXXPA14.05 TSM-XXXPA14.08 TSM-XXXPA14.10 TSM-XXXPA14.18 TSM-XXXPA14.20 TSM-XXXPA14.002 TSM-XXXPA14.28 TSM-XXXPA14.082 TSM-XXXPA14.30 TSM-XXXPA14.102 TSM-XXXPA14.38 TSM-XXXPA14.182 TSM-XXXDA14 TSM-XXXDA14.05 TSM-XXXDA14.08	XXX=260 to 315
	TSM-XXXPA05 TSM-XXXPA05.05 TSM-XXXPA05.08 TSM-XXXPA05.10 TSM-XXXPA05.15 TSM-XXXPA05.18 TSM-XXXPA05.20 TSM-XXXPA05.002 TSM-XXXPA05.28 TSM-XXXPA05.082 TSM-XXXPA05.30 TSM-XXXPA05.102 TSM-XXXPA05.38 TSM-XXXPA05.182 TSM-XXXDA05 TSM-XXXDA05.05 TSM-XXXDA05.08	XXX=215 to 260
	TSM-XXXPA05A TSM-XXXPA05A.05 TSM-XXXPA05A.10 TSM-XXXPA05A.15 TSM-XXXPA05A.18 TSM-XXXPA05A.08	XXX=230 to 270
	TSM-XXXDA01 TSM-XXXDA01.05 TSM-XXXDA01.08	XXX=155 to 185
	TSM-XXXDA80 TSM-XXXDA80.08	XXX=185 to 200
	TSM-XXXDA01A TSM-XXXDA01A.05 TSM-XXXDA01A.08	XXX=170 to 205
	1000	TSM-XXXPD05 TSM-XXXPD05.08 TSM-XXXPD05.10 TSM-XXXPD05.18 TSM-XXXPD05.001 TSM-XXXPD05.002 TSM-XXXPD05.051 TSM-XXXPD05.052 TSM-XXXPD05.101 TSM-XXXPD05.102 TSM-XXXPD05.081 TSM-XXXPD05.082 TSM-XXXPD05.181 TSM-XXXPD05.182 TSM-XXXPD05.05 TSM-XXXPD05.151 TSM-XXXPD05.152 TSM-XXXPD05.00S TSM-XXXPD05.00M TSM-XXXPD05.10S TSM-XXXPD05.10M TSM-XXXPD05.08S TSM-XXXPD05.08M TSM-XXXPD05.18S TSM-XXXPD05.18M TSM-XXXPD05.00S TSM-XXXPD05.00M TSM-XXXPD05.10S TSM-XXXPD05.10M TSM-XXXPD05.08S TSM-XXXPD05.08M TSM-XXXPD05.18S TSM-XXXPD05.18M



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TSM-XXXXPD14	TSM-XXXXPD14.08	XXX=260 to 315
TSM-XXXXPD14.10	TSM-XXXXPD14.18	
TSM-XXXXPD14.001	TSM-XXXXPD14.002	
TSM-XXXXPD14.081	TSM-XXXXPD14.082	
TSM-XXXXPD14.101	TSM-XXXXPD14.102	
TSM-XXXXPD14.181	TSM-XXXXPD14.182	
TSM-XXXXPD14.05	TSM-XXXXPD14.051	
TSM-XXXXPD14.052	TSM-XXXXPD14.151	
TSM-XXXXPD14.152	TSM-XXXXPD14.00S	
TSM-XXXXPD14.00M	TSM-XXXXPD14.10S	
TSM-XXXXPD14.10M	TSM-XXXXPD14.08S	
TSM-XXXXPD14.08M	TSM-XXXXPD14.18S	
TSM-XXXXPD14.18M	TSM-XXXXPD14.00S	
TSM-XXXXPD14.00M	TSM-XXXXPD14.10S	
TSM-XXXXPD14.10M	TSM-XXXXPD14.08S	
TSM-XXXXPD14.08M	TSM-XXXXPD14.18S	
TSM-XXXXPD14.18M		

Notes:

- Rated electrical characteristics are within +/-10% of measured values at Standard Test Conditions of 100 mW/cm² irradiance, AM 1.5 spectrum, and 25°C.
- When Series name is followed by two digit suffix, suffix digits definition is as follows: .XY

X = 0 → Base Model

X = 1 → Identical in construction to Base Model except for “Trinamount” frame

X = 2 → Identical in construction to Base Model except for Maximizer junction box, i.e. “Trinasmart”.

X = 3 → Identical in construction to Base Model except for Maximizer junction box, i.e. “Trinasmart” and “Trinamount” frame.

Y = 0 → Base Model

Y = 5 → Identical in construction to Base Model except for black color of substrate, junction box adhesive, frame and frame sealing compound

Y = 8 → Identical in construction to Base Model except for black color of frame

- When Series name is followed by three digit suffix, suffix digits definition is as follows: .XYZ

X = 0 → Base Model

X = 1 → Identical in construction to Base Model except for “Trinamount” frame

Y = 0 → Base Model

Y = 5 → Identical in construction to Base Model except for black color of frame and substrate

Y = 8 → Identical in construction to Base Model except for black color of frame

Z = 1 → Identical in construction to Base Model except for TrinaSmart DC(No Smart Curve)

Z = 2 → Identical in construction to Base Model except for Maximizer junction box, i.e. ‘Trinasmart’

Z = S → Identical in construction to Base Model except for Tigo junction boxe, TS4-S

Z = M → Identical in construction to Base Model except for Tigo junction boxe, TS4-M



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4. For 'Trinasmart' models, TSM-XXXPA05.20 or TSM-XXXPA05.002, TSM-XXXPA05.28 or TSMXXXPA05.082, TSM-XXXPA05.30 or TSM-XXXPA05.102, TSM-XXXPA05.38 or TSM-XXXPA05.182, TSM-XXXPA14.20 or TSM-XXXPA14.002, TSM-XXXPA14.28 or TSM-XXXPA14.082, TSM-XXXPA14.30 or TSM-XXXPA14.102, TSM-XXXPA14.38 or TSM-XXXPA14.182, TSM-XXXPD14.002, TSMXXXPD14.082, TSM-XXXPD14.102, TSM-XXXPD14.182, TSM-XXXPD05.002, TSM-XXXPD05.082, TSM-XXXPD05.102 and TSM-XXXPD05.182, Short Circuit Current (Isc) is replaced with Maximum Current (Imax) value of 9.5A, and Open Circuit Voltage (Voc) is replaced with Smart Curve V_{limit} (V) value of 33.0V for models TSM-XXXPA05.20 or TSM XXXPA05.002, TSM-XXXPA05.28 or TSM-XXXPA05.082, TSM-XXXPA05.30 or TSM-XXXPA05.102, TSM-XXXPA05.38 or TSMXXXPA05.182, TSM-XXXPD05.002, TSM-XXXPD05.082, TSM-XXXPD05.102 and TSM-XXXPD05.182 and value of 39.4V for models TSM- XXXPA14.20 or TSM-XXXPA14.002, TSM-XXXPA14.28 or TSM-XXXPA14.082,
5. TSM-XXXPA14.30 or TSM-XXXPA14.102, TSM-XXXPA14.38 or TSMXXXPA14.182, TSM-XXXPD14.002, TSM-XXXPD14.082, TSM-XXXPD14.102 and TSM-XXXPD14.182.

6. The modules with the specified construction as below may be marked with its type as the below :

Module model		Specific construction	Marking
TSM-xxxPA05	TSM-xxxPA05.05	Superstrate: (2.84 ~ 4.36) mm thick; EVA: (0.25 ~ 0.65) mm thick; Substrate: (0.30 ~ 0.64) mm thick; Frame: Cross sectional dimension: 35 x 35mm, 46 x 38 mm, 40 x 40 mm Height: 35 mm, 46 mm, 40 mm Thickness: 1.5 mm, 2 mm, 2mm	Module Fire Performance: Type 1
TSM-xxxPA05.08	TSM-xxxPA05.20		
TSM-xxxPA05.002	TSM-xxxPA05.28		
TSM-xxxPA05.082	TSM-xxxDA05		
TSM-xxxDA05.05	TSM-xxxDA05.08		
TSM-xxxPA05A	TSM-xxxPA05A.05		
TSM-xxxPA05A.08	TSM-xxxDA01		
TSM-xxxDA01.05	TSM-xxxDA01.08		
TSM-xxxDA80	TSM-xxxDA80.08		
TSM-xxxDA01A	TSM-xxxDA01A.05		
TSM-xxxDA01A.08	TSM-xxxPD05		
TSM-xxxPD05.05	TSM-xxxPD05.051		
TSM-xxxPD05.08	TSM-xxxPD05.002		
TSM-xxxPD05.082	TSM-xxxPD05.102		
TSM-xxxPD05.182	TSM-XXXPD05.00S		
TSM-XXXPD05.00M	TSM-XXXPD05.10S		
TSM-XXXPD05.10M	TSM-XXXPD05.08S		
TSM-XXXPD05.08M	TSM-XXXPD05.18S		
TSM-XXXPD05.18M	TSM-xxxPD05.052		
TSM-xxxPD05.001	TSM-xxxPD05.081		
TSM-xxxPD05.101	TSM-xxxPD05.181		
TSM-XXXPD14.00S	TSM-XXXPD14.00M		
TSM-XXXPD14.10S	TSM-XXXPD14.10M		
TSM-XXXPD14.08S	TSM-XXXPD14.08M		
TSM-XXXPD14.18S	TSM-XXXPD14.18M		



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<p>TSM-xxxPA05 TSM-xxxPA05.08 TSM-xxxPA05.002 TSM-xxxPA05.082 TSM-xxxDA05.05 TSM-xxxPA05A TSM-xxxPA05A.08 TSM-xxxDA01.05 TSM-xxxDA80 TSM-xxxDA01A TSM-xxxDA01A.08 TSM-xxxPD05.05 TSM-xxxPD05.08 TSM-xxxPD05.082 TSM-xxxPD05.102 TSM-xxxPD05.052 TSM-xxxPD05.081 TSM-xxxPD05.181 TSM-XXXPD05.00M TSM-XXXPD05.10M TSM-XXXPD05.08M TSM-XXXPD05.18M TSM-xxxPD14.18 TSM-xxxPD14.102 TSM-xxxPD14.182 TSM-XXXPD14.00M TSM-XXXPD14.10M TSM-XXXPD14.08M TSM-XXXPD14.18M</p>	<p>TSM-xxxPA05.05 TSM-xxxPA05.20 TSM-xxxPA05.28 TSM-xxxDA05 TSM-xxxDA05.08 TSM-xxxPA05A.05 TSM-xxxDA01 TSM-xxxDA01.08 TSM-xxxDA80.08 TSM-xxxDA01A.05 TSM-xxxPD05 TSM-xxxPD05.051 TSM-xxxPD05.002 TSM-xxxPD05.18 TSM-xxxPD05.182 TSM-xxxPD05.001 TSM-xxxPD05.101 TSM-XXXPD05.00S TSM-XXXPD05.10S TSM-XXXPD05.08S TSM-XXXPD05.18S TSM-xxxPD14.10 TSM-xxxPD14.101 TSM-xxxPD14.181 TSM-XXXPD14.00S TSM-XXXPD14.10S TSM-XXXPD14.08S TSM-XXXPD14.18S</p>	<p>Superstrate: (2.84 ~ 4.36) mm thick; EVA: (0.25 ~ 0.65) mm thick; Substrate: (0.025 mm ~ 0.3)mm thick; Frame: Cross sectional dimension: 35 x 35 mm, 46 x 38 mm, 40 x 40 mm Height: 35 mm, 46 mm, 40 mm Thickness: 1.5 mm, 2 mm, 2 mm</p>	<p>Module Fire Performance: Type 2</p>
<p>TSM-xxxPD05.10 TSM-XXXPD05.10M TSM-XXXPD05.10S</p>	<p>TSM-xxxPD05.18 TSM-XXXPD05.18M TSM-XXXPD05.18S</p>	<p>Superstrate: 3.2~4.36mm thick; EVA: 0.25~0.65 mm thick; Substrate: 0.30 mm ~ 0.64 mm thick; Frame: Cross sectional dimension: 40*38 mm, 40*35 mm Height: 40mm, 40 mm Thickness: 1.8mm, 1.5 mm</p>	<p>Module Fire Performance: Type 1</p>



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<p>TSM-xxxPD05.10 TSM-xxxPD05.18 TSM-XXXPD05.10M TSM-XXXPD05.18M TSM-XXXPD05.10S TSM-XXXPD05.18S</p>	<p>Superstrate: 3.2~4.36mm thick; EVA: 0.25~0.65 mm thick; Substrate: 0.025 ~ 0.284 mm thick; Frame: Cross sectional dimension: 40* 38 mm, 40 *35 mm Height: 40 mm, 40 mm Thickness: 1.8 mm, 1.5 mm</p>	<p>Module Fire Performance: Type 2</p>
<p>TSM-xxxPD14 TSM-xxxPD14.05 TSM-xxxPD14.08 TSM-xxxPD14.002 TSM-xxxPD14.082 TSM-xxxPD14.102 TSM-xxxPD14.182 TSM-xxxPD14.052 TSM-xxxPD14.001 TSM-xxxPD14.081 TSM-xxxPD14.101 TSM-xxxPD14.181 TSM-xxxPD14.051 TSM-XXXPD14.00S TSM-XXXPD14.00M TSM-XXXPD14.10S TSM-XXXPD14.10M TSM-XXXPD14.08S TSM-XXXPD14.08M TSM-XXXPD14.18S TSM-XXXPD14.18M</p>	<p>Superstrate: 3.2~4.36mm thick; EVA: 0.25~0.65mm thick; Substrate: 0.30 mm ~ 0.64 mm thick; Frame: Cross sectional dimension: 40*35 mm, 46 x 38 mm Height: 40mm, 46 mm Thickness: 1.5 mm, 2 mm</p>	<p>Module Fire Performance: Type 1</p>
<p>TSM-xxxPD14, TSM-xxxPD14.05 TSM-xxxPD14.08 TSM-xxxPD14.002 TSM-xxxPD14.082 TSM-xxxPD14.102 TSM-xxxPD14.182 TSM-xxxPD14.052 TSM-xxxPD14.001 TSM-xxxPD14.081 TSM-xxxPD14.101 TSM-xxxPD14.181 TSM-xxxPD14.051 TSM-XXXPD14.00S TSM-XXXPD14.00M TSM-XXXPD14.10S TSM-XXXPD14.10M TSM-XXXPD14.08S TSM-XXXPD14.08M TSM-XXXPD14.18S TSM-XXXPD14.18M</p>	<p>Superstrate: 3.2~4.36mm thick; EVA: 0.25~0.65mm thick; Substrate: 0.284 mm ~ 0.300 mm thick; Frame: Cross sectional dimension: 40*35 mm, 46 x 38 mm Height: 40mm, 46 mm Thickness: 1.5 mm, 2 mm</p>	<p>Module Fire Performance: Type 2</p>
<p>Other series in this description</p>	<p>All construction in this description</p>	<p>Fire resistance rating: Class C (This rating will be invalid after 2016-10-25)</p>

APPLICABLE REQUIREMENTS

ULC/ORD- C1703-01 - Flat-Plate Photovoltaic Modules and Panels
UL 1703-3rd Edition - Flat-Plate Photovoltaic Modules and Panels