

Mono

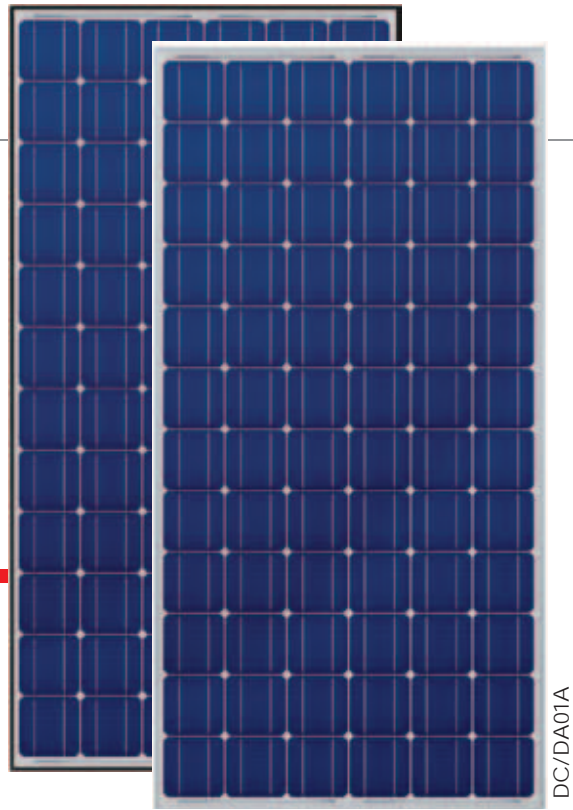
Multi

Solutions

TSM-DC01A

TSM-DA01A

THE **Comax** SOLUTION
by **TrinaSolar**



15.6%
MAX EFFICIENCY

200W
MAX POWER OUTPUT

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY

Founded in 1997, Trina Solar (NYSE: TSL) has established itself as a leader in the solar community with its vertically integrated business model. Our modules and system solutions provide clean solar power in on-grid and off-grid residential, commercial, industrial and utility-scale systems.

With more than 22 offices worldwide, Trina Solar has partnerships with leading installers, distributors, utilities and developers in all major PV markets. Trina Solar is committed to driving smarter energy choices.

Trina Solar Limited
www.trinasolar.com

TrinaSolar
Smart Energy Together



Module can bear snow loads up to **5400Pa** and wind loads up to **2400Pa**



Guaranteed power output **0~+3%**



High performance under low light conditions
Cloudy days, mornings and evenings



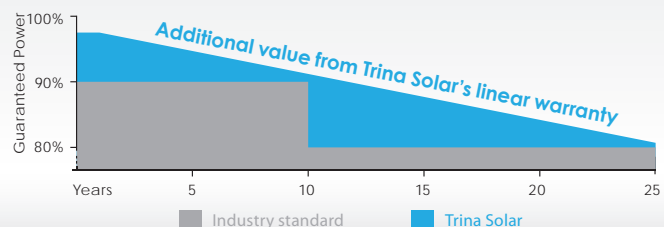
Manufactured according to International Quality and Environment Management System Standards **ISO9001, ISO14001**



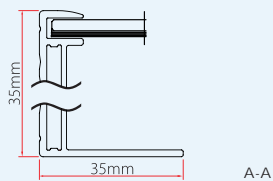
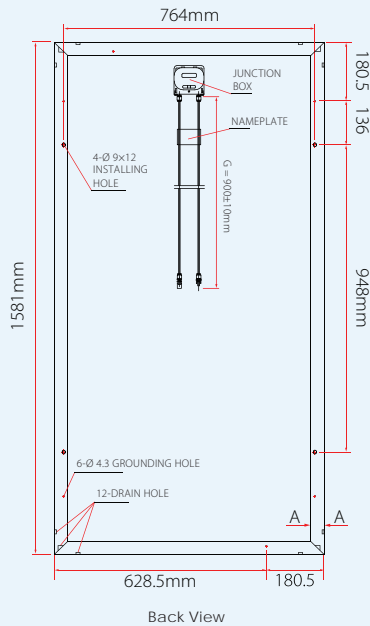
MC4 photovoltaic connectors increase system reliability

LINEAR PERFORMANCE WARRANTY

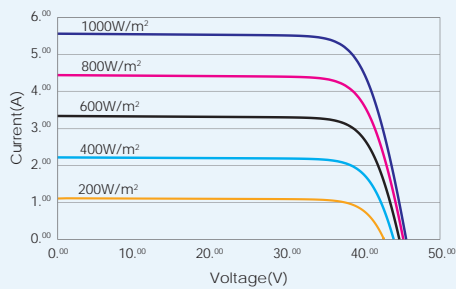
10 Year Product Warranty • 25 Year Linear Power Warranty



DIMENSIONS OF PV MODULE TSM-DC/DA01A



I-V CURVES OF PV MODULE TSM-195 DC/DA01A



Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1.

CERTIFICATION




ELECTRICAL DATA @ STC	TSM-190 DC/DA01A	TSM-195 DC/DA01A	TSM-200 DC/DA01A
Peak Power Watts-P _{MAX} (Wp)	190	195	200
Power Output Tolerance-P _{MAX} (%)	0/+3	0/+3	0/+3
Maximum Power Voltage-V _{MPP} (V)	36.6	37.1	37.6
Maximum Power Current-I _{MPP} (A)	5.19	5.25	5.32
Open Circuit Voltage-V _{OC} (V)	45.1	45.6	46.0
Short Circuit Current-I _{SC} (A)	5.52	5.56	5.60
Module Efficiency η _m (%)	14.9	15.2	15.6

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C). Power measurement tolerance: ±3%

ELECTRICAL DATA @ NOCT	TSM-190 DC/DA01A	TSM-195 DC/DA01A	TSM-200 DC/DA01A
Maximum Power-P _{MAX} (Wp)	140	143	147
Maximum Power Voltage-V _{MPP} (V)	33.8	34.3	34.8
Maximum Power Current-I _{MPP} (A)	4.14	4.18	4.23
Open Circuit Voltage (V)-V _{OC} (V)	41.7	42.2	42.5
Short Circuit Current (A)-I _{SC} (A)	4.44	4.47	4.5

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. Power measurement tolerance: ±3%

MECHANICAL DATA

Solar cells	Monocrystalline 125 × 125mm (5 inches)
Cell orientation	72 cells (6 × 12)
Module dimensions	1581 × 809 × 35mm (62.24 × 31.85 × 1.37 inches)
Weight	14.9kg (32.8 lb)
Glass	High transparency solar glass 3.2mm (0.13 inches)
Frame	Anodized aluminium alloy
J-Box	IP 65 rated
Cables	Photovoltaic Technology cable 4.0mm ² (0.006 inches ²), 900mm (35.4 inches)
Connector	Original MC4 

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.40%/°C
Temperature Coefficient of V _{OC}	-0.30%/°C
Temperature Coefficient of I _{SC}	0.023%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC(IEC)/600V DC(UL)
Max Series Fuse Rating	10A

WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 29 pieces

Modules per 40' container: 812 pieces

