TD Series

PV-TD195HA6 195Wp
PV-TD190HA6 190Wp
PV-TD185HA6 185Wp
PV-TD180HA6 180Wp

Best Performance with Long Reliability

Performance
- Higher Cell Efficiency
  - 4 busbar cell
  - Solder coatingless
  - Fine grid electrodes
  - Optimized tab thickness
- Higher Module Output
  - Highly reflective backfilm with wide cell pitch
  - Cerium-free high-transparency glass
  - Tight tolerance +/- 3%
  - High power in actual use
    (Paired module average exceeds nominal value)

Reliability
- Static load test of 5400Pa passed with protection bar
- Double corrosion resistant frame coating
- Max. system voltage 1000V with four-layer back film
- Water drainage structure
- Low frame edge slope
- Flexible straight tabs

Safety
- Quad-layer protective design junction box
- Highly heat-resistant bypass diode
- Lock mechanism equipped connectors
- Conforms with IEC 61215 2nd Edition, IEC 61730
- Lighter weight modules at 17.0kg

Ecological
- Lead-free solder modules
- Manufactured in a ISO14001 certified plant
- Shipped on recyclable steel pallets

All models made in Japan
**SPECIFICATIONS SHEET**

Manufacturer: MITSUBISHI ELECTRIC

Model names:
- PV-TD195HA6
- PV-TD190HA6
- PV-TD185HA6
- PV-TD180HA6

Cell type: Polycrystalline silicon, 156mm × 156mm

Number of cells: 50 cells in a series

Maximum power rating (Pmax):
- PV-TD195HA6: 195W
- PV-TD190HA6: 190W
- PV-TD185HA6: 185W
- PV-TD180HA6: 180W

Warranted minimum Pmax:
- 189.2W
- 184.3W
- 179.5W
- 174.6W

Tolerance of maximum power rating: +/−3%

Open circuit voltage (Voc):
- 30.6V
- 30.5V
- 30.3V
- 30.1V

Short circuit current (Isc):
- 8.48A
- 8.36A
- 8.24A
- 8.12A

Maximum power voltage (Vmp):
- 25.4V
- 25.1V
- 24.9V
- 24.6V

Maximum power current (Imp):
- 7.69A
- 7.56A
- 7.44A
- 7.32A

Normal operating cell temperature (NOCT): 47.0°C

Maximum system voltage: DC 1000V

Fuse rating: 15A

Dimensions:
- 1658×834×46mm (65.3×32.8×1.81 inches)

Weight: 17kg (37lbs.)

Output terminal: (+) 800mm/(-) 1250mm with MC connector (PV-KBT4/6-II-UR, PV-KST4/6-II-UR)

Module efficiency:
- PV-TD195HA6: 14.1%
- PV-TD190HA6: 13.7%
- PV-TD185HA6: 13.4%
- PV-TD180HA6: 13.0%

Packing condition: 2 pcs - 1 carton

Certificates:
- IEC 61215 Second Edition
- IEC 61730
- Cable conforms with TÜV Specification 2 PfG 1169/08.2007

**DRAWINGS AND DIMENSIONS**

**ELECTRICAL CHARACTERISTICS**

- **Irradiance dependence of Isc, Voc and Pmax**
  - Cell temperature: 25°C
  - Normalized values shown

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**MITUBISHI ELECTRIC CORPORATION**

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Specifications subject to change without notice.