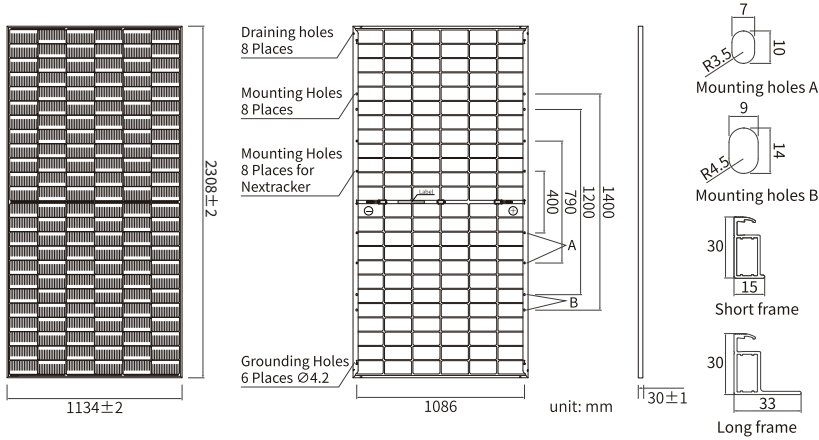


SPTM-DT-590



MECHANICAL PARAMETERS

| | |
|--------------------------|-------------------------------------|
| Cell | Mono |
| Weight | 31.9kg |
| Dimensions | 2308 ± 2mm × 1134 ± 2mm × 30 ± 1mm |
| Cable Cross Section Size | 4mm ² (IEC), 12 AWG(UL) |
| No. of cells | 144(6 × 24) |
| Junction Box | IP68, 3diodes |
| Connector | QC 4.10-351/ MC4-EVO2A |
| Cable Length | Porteait: 900mm(+)/1000mm(-) |
| Front Glass/Back Glass | 2.0mm/2.0mm |
| Packaging Configuration | 36pcs/Pallet, 720pcs/40HQ Container |

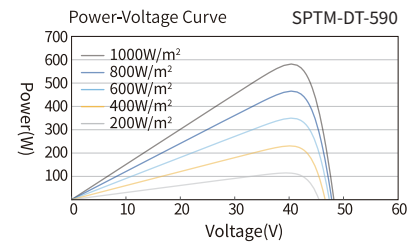
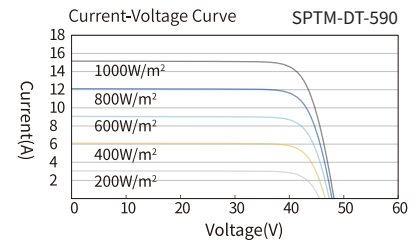
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

| TYPE | SPTM-DT-590 |
|--|---|
| Rated Maximum Power(Pmax) [W] | 590 |
| Open Circuit Voltage (Voc) [V] | 52.37 |
| Maximum Power Voltage(Vmp) [V] | 44.43 |
| Short Circuit Current(Isc) [A] | 13.94 |
| Maximum Power Current(Imp) [A] | 13.28 |
| Module Efficiency [%] | 22.8 |
| Power Tolerance | 0~+5% |
| Temperature Coefficient of Isc(α _{Isc}) | +0.045%/°C |
| Temperature Coefficient of Voc (β _{Voc}) | -0.250%/°C |
| Temperature Coefficient of Pmax(γ _{Pmp}) | -0.290%/°C |
| STC | Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G |

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

CHARACTERISTICS



ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

| TYPE | SPTM-DT-590 |
|--------------------------------|-------------|
| Rated Max Power(Pmax) [W] | 637 |
| Open Circuit Voltage(Voc) [V] | 52.37 |
| Max Power Voltage(Vmp) [V] | 44.43 |
| Short Circuit Current(Isc) [A] | 15.06 |
| Max Power Current(Imp) [A] | 14.34 |
| Irradiation Ratio (rear/front) | 10% |

OPERATING CONDITIONS

| | |
|-----------------------------|---------------------------------|
| Maximum System Voltage | 1500V DC |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse Rating | 30A |
| Maximum Static Load, Front* | 5400Pa(112 lb/ft ²) |
| Maximum Static Load, Back* | 2400Pa(50 lb/ft ²) |
| NOCT | 45 ± 2°C |
| Bifaciality** | 80% ± 10% |
| Safety Class | Class II |
| Fire Performance | UL Type 29/Class C |

590W



► Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction. Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

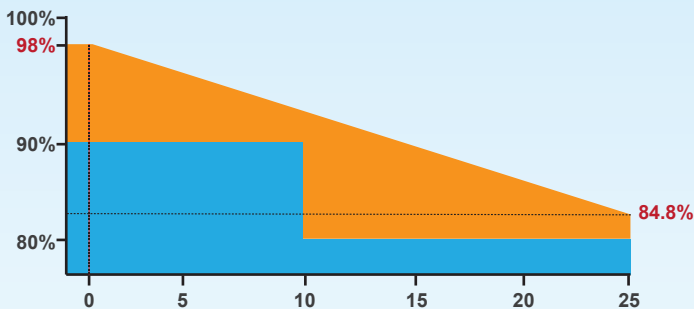
SPTM-DT-590

MODULE CHARACTER

- PID Resistance
- Salt mist resistance/Ammonia resistance /dust and hail resistance
- Production process reliability test
- 0~+5W Positive Tolerance
- Mono 16 BB half cut
- Reduce BOS cost increase ROI
- Non-destructive cutting

CERTIFICATION

- IEC61215/IEC61730
- ISO9001:Quality Management System
- ISO14001:Environmental Management System
- ISO45001:Occupational Health and Safety Management System



Linear performance warranty Product warranty



SUNPACT SOLAR ENERGY (SMC-PRIVATE) LIMITED

WAREHOUSE ADDRESS: HOUSE # 300 BLOCK G3 JOHAR TOWN LAHORE

TEL: 00923108888560 E-MAIL: sunpactltd@gmail.com

ANHUI RED STAR SOLAR CO.,LTD

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BENGBU TONGLING MODERN INDUSTRIAL PARK, XINMAQIAO TOWN, GUZHEN COUNTY, BENGBU CITY, ANHUI PROVINCE

