





490–510 W

High efficiency bifacial single glass PERC module

TS-BB66



Bifacial technology allows for the harvesting of up to an additional 25% energy from the rear side of the module.



Excellent low irradiance performance.



Enhanced light trapping and optimized current collection contribute to the improvement of both module power output and reliability.



Industry leading lowest thermal coefficient of power.



Design optimized for lower operating current, resulting in minimized hot spot loss and improved temperature coefficient.



Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



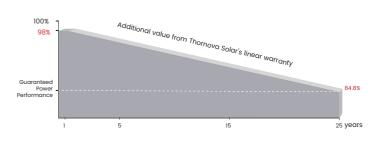
100% triple EL test enables remarkable reduction of module hidden crack rate.

RE INSURANCE



Optional performance warranty insurance. Please contact our local sales staff for more information

LINEAR PERFORMANCE WARRANTY



15 years Product quality & process guarantee

25 years Linear power guarantee **0.55** % Annual degradation Over 25 years

COMPREHENSIVE CERTIFICATES



ISO 9001:Quality Management SystemISO 14001:Environmental Management System StandardISO 45001:International Occupational Health and
Safety Assessment System Standard

* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

ELECTRIC CHARACTERISTICS



| Model of modules | TS-BB66(490) | | TS-BB66(495) | | TS-BB66(500) | | TS-BW66(505) | | TS-BB66(510) | |
|--|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
| | STC | NOCT |
| Peak power - P _{mp} (W) | 490 | 365 | 495 | 369 | 500 | 373 | 505 | 376 | 510 | 380 |
| Open circuit voltage - V _{oc} (V) | 45.25 | 42.71 | 45.34 | 42.80 | 45.43 | 42.88 | 45.54 | 42.99 | 45.61 | 43.05 |
| Short circuit current - $I_{sc}(A)$ | 13.71 | 11.08 | 13.78 | 11.13 | 13.85 | 11.19 | 13.95 | 11.27 | 14.06 | 11.36 |
| MPP voltage - V _{mp} (V) | 37.27 | 34.89 | 37.34 | 34.96 | 37.41 | 35.02 | 37.53 | 35.13 | 37.62 | 35.22 |
| MPP current - $I_{mp}(A)$ | 13.15 | 10.46 | 13.26 | 10.55 | 13.37 | 10.64 | 13.46 | 10.71 | 13.56 | 10.79 |
| Module efficiency - η _m (%) | 20 |).6 | 20 |).9 | 21 | .1 | 21 | 1.3 | 21 | 5 |

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C , Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

| Peak power - P _{mp} (W) | 536 | 542 | 547 | 553 | 558 |
|--|--------|-------|-------|-------|-------|
| Open circuit voltage - V _{oc} (V) | 45.25 | 45.34 | 45.43 | 45.54 | 45.63 |
| Short circuit current - $I_{sc}(A)$ | 15.01 | 15.08 | 15.16 | 15.27 | 15.34 |
| MPP voltage - $V_{mp}(V)$ | 37.27 | 37.34 | 37.41 | 37.53 | 37.6 |
| MPP current - $I_{mp}(A)$ | 14.39 | 14.51 | 14.63 | 14.73 | 14.85 |
| Irradiance ratio (rear/front) | 13.5 % | | | | |

STRUCTURAL CHARACTERISTICS

| Module dimension (L*W*H) | 2094 x 1134 x 35 mm (82.44 x 44.65 x 1.38 inch) |
|--------------------------|---|
| Weight | 25.3 kg (55.78 lbs) |
| Number of cells | 132 cells |
| Cell | PERC monocrystalline |
| Glass | Tempered, 3.2 mm AR, High transmittance, Low iron |
| Backsheet | Transparent black mesh backsheet |
| Frame | Anodized aluminum alloy |
| Junction box | IP68, 3 diodes |
| Output wire | 4.0 mm ² |
| Wire length | 300 mm / 1200 mm / Customized length |
| Connector | MC4 - EVO2 |
| Packing specification | 31 pcs/Pallet; 682 pcs/40'HQ |

OPERATING PARAMETERS

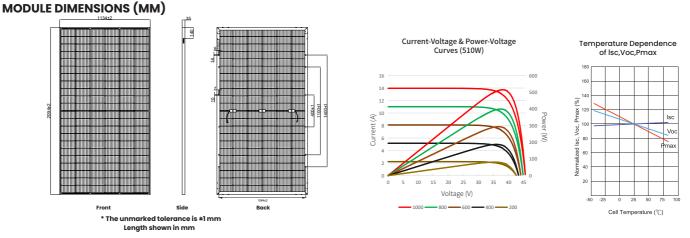
| Power tolerance (W) | (0,+5) |
|-------------------------------------|-----------|
| Maximum system voltage (V) | 1500 |
| Maximum rated fuse current (A) | 30 |
| Current operating temperature (°C) | -40~+85 ℃ |
| Bifaciality | 70±5% |

MECHANICAL LOADING

| Front side maximum static loading (Pa) | 5400 |
|--|------|
| Rear side maximum static loading (Pa) | 2400 |
| Hailstone test (mm) | 35 |

TEMPERATURE RATINGS

| Temperature coefficient (P _{max}) | −0.33 %/°C |
|---|------------|
| Temperature coefficient (V_{oc}) | -0.26 %/°C |
| Temperature coefficient (I _{sc}) | +0.06 %/°C |
| Nominal operating cell temperature | 45±2 °C |



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