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Solar Panel Guide Specification Data Sheet

Znshine PV-tech Co., Ltd.

ZXM6-TD60-285-320

ZXM6-TD60-285

Also available on the web at
EnergyPal.com/znshine-pv-tech-co-ltd-solar-panels/zxm6-td60-285



ZNSHINESOLAR

ZXM6 | D60 Cells

12-busbar double-glass mono module 285-320 Watt



Features:

Good Low-light performance

Excellent performance under low-light environments.

High efficiency

Dense busbars shorten the current conduction distances between bars and lower serial resistance; increases 7-8W power output.

Minimize Crack Effect

Collected more current, almost no power generation efficiency lose by internal cells cracked.

Improve reliability

Improve product reliability; minimize the probability of pressure and battery fragmentation caused by thermal stress.

Longer lifetime

Minimize the heat resistance due to internal cracks, bringing longer life span and less attenuation.



High Efficiency

High module efficiency up to 19.46%



Linear Warranty

30-year-linear warranty on outputs



Good weather resistance, Better anti-EL ability

Good weather resistance, Better anti-EL ability



Higher capacity in all life cycle, Lower power attenuation, Longer lifespan, less maintenance costs

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Lower carbon emissions, more environmental-friendly way of recycling

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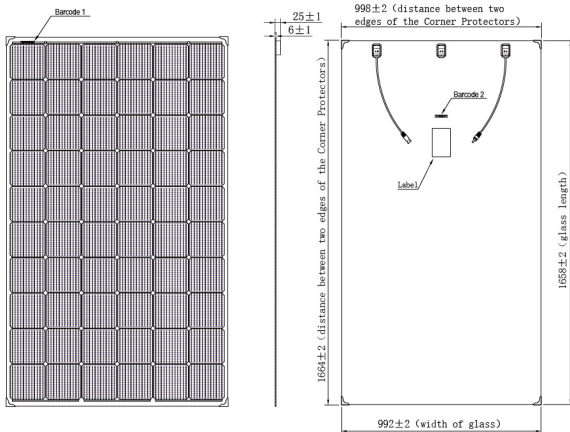
System Certification

ISO 9001
ISO 14001
OHSAS 18001

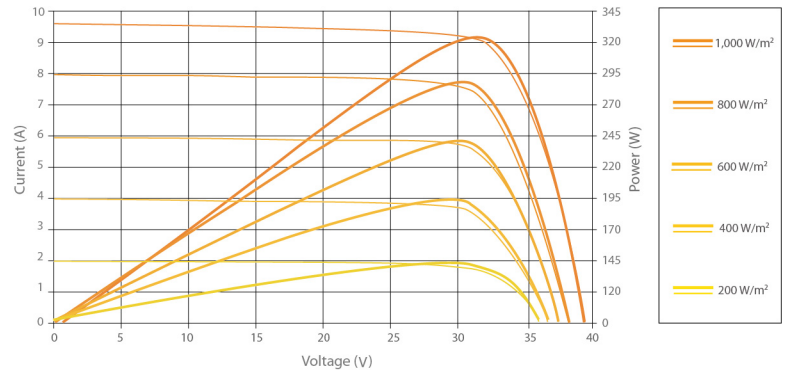


ZXM6 TD60/285-320

Dimension of the PV module



I-V Curves of the PV module



Electrical data

| Model | ZXM6-TD60-285 | ZXM6-TD60-290 | ZXM6-TD60-295 | ZXM6-TD60-300 | ZXM6-TD60-305 | ZXM6-TD60-310 | ZXM6-TD60-315 | ZXM6-TD60-320 |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nominal Power Watt $P_{max}(W_p)$ | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 |
| Power Output Tolerance $P_{max}(\%)$ | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 |
| Maximum Power Voltage $V_{mp}(V)$ | 31.88 | 32.05 | 32.21 | 32.37 | 32.52 | 32.70 | 32.88 | 33.06 |
| Maximum Power Current $I_{mp}(A)$ | 8.94 | 9.05 | 9.16 | 9.27 | 9.38 | 9.48 | 9.58 | 9.68 |
| Open Circuit Voltage $V_{oc}(V)$ | 38.85 | 38.99 | 39.15 | 39.31 | 39.46 | 39.61 | 39.78 | 39.94 |
| Short Circuit Current $I_{sc}(A)$ | 9.43 | 9.54 | 9.64 | 9.74 | 9.83 | 9.93 | 10.03 | 10.13 |
| Module Efficiency $\eta_m(\%)$ | 17.33 | 17.63 | 17.94 | 18.24 | 18.54 | 18.85 | 19.15 | 19.46 |

Mechanical data

| | |
|-------------------|---------------------------------------|
| Solar cells | Mono 156×156 / 156.75×156.75 mm |
| Cells orientation | 60 (6×10) |
| Module dimension | 1658×992×25 mm(Frameless,JB Included) |
| Weight | 22 kg |
| Glass | 2.0mm/2.5mm heat strengthened glass |
| Junction box | IP 68, 3 diodes |
| Cables | 4 mm ² , 350 mm |
| Connectors | MC4-compatible |

Temperature ratings

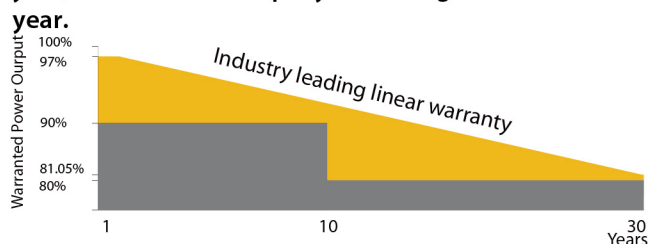
| | |
|--------------------------------------|-----------|
| Nominal Operating Cell Temperature | 45°C ±2°C |
| Temperature coefficient of P_{max} | -0.41%/K |
| Temperature coefficient of V_{oc} | -0.29%/K |
| Temperature coefficient of I_{sc} | 0.04%/K |

Working conditions

| | |
|--------------------------|-------------------|
| Maximum system voltage | 1000 / 1500 V DC |
| Operating temperature | -40°C~+85°C |
| Maximum series fuse | 15 A |
| Maximum load (snow/wind) | 5400 Pa / 2400 Pa |

Warranty information

30 years output warranty(monocrystalline): 3.0% in the 1st year, thereafter 0.55% per year ending with 81.05% in the 30th year.



Packaging information

| | |
|------------------------------|----------|
| Modules per box | 31 pcs. |
| Modules per 40' HQ container | 806 pcs. |

Measurement Tolerance STC: ±3% (P_{max}), ±10% (V_{mp} , I_{mp} , V_{oc} , I_{sc}). Values at Standard Test Conditions STC(Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C) | Remark: please read safety and installation instructions before using the product | Subject to change without prior notice © ZNSHINE SOLAR 2017 | Version: ZXM6-TD60-1805.E