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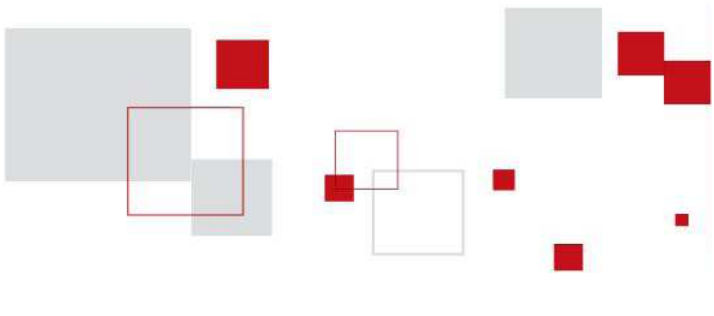
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Solar Panel Guide Specification Data Sheet

**Shenzhen Tuoyang New Energy Technology Co.,
Ltd.**

**150W,160W,165W POLY
TYSM150**

Also available on the web at
EnergyPal.com/shenzhen-tuoyang-new-energy-technology-co-ltd-solar-panels/tysm150



SPECIFICATION OF 150W.160W,165W POLY SOLAR MODULE

Poly-Crystalline

| Module type | Pm(W) | Number of cell | Cell Dimension (mm) | Max System Voltage(V) | Vm(V) | Im(A) | Voc(V) | Isc(A) |
|-------------|-------|----------------|---------------------|-----------------------|-------|-------|--------|--------|
| TYSM150 | 150W | 48 | 156 | 1000 | 23 | 6.52 | 28.29 | 6.98 |
| TYSM160 | 160W | 48 | 156 | 1000 | 23 | 6.96 | 28.29 | 7.44 |
| TYSM165 | 165W | 48 | 156 | 1000 | 23 | 7.17 | 28.29 | 7.68 |

Parameter

| | |
|-------------------------------------|--|
| Maximum system voltage (V) | 1000 |
| Temperature coefficients of Isc (%) | +0.1%/°C |
| Temperature coefficients of Voc (%) | -0.38%/°C |
| Temperature coefficients of Pm (%) | -0.47%/°C |
| Temperature coefficients of Im (%) | +0.1%/°C |
| Temperature coefficients of Vm (%) | -0.38%/°C |
| Temperature Range | -40°C ---85°C |
| Tolerance Wattage (e.g. +/-5%) | ± 5% |
| Surface Maximum Load Capacity | 60m/s (200kg/sq.m) |
| Junction Box Type | PPO, black |
| Connectors and Cables Type | 4mm ² |
| Length of Cables (mm) | 900 |
| Cell Efficiency (%) | >14.0% |
| Output tolerance (%) | ± 5% |
| Frame (Material, Corners, etc.) | Anodized Aluminum Alloy |
| Standard Test Conditions | AM1.5 100MW/cm ² 25°C |
| Guarantee of power | 5 years for whole products,90% power for 10years, 80% power for 25years. |
| FF (%) | ≥73.3% |



Physical Characters

| Output | Module Net Weight | Module Size (MM) | Packing | 20' Container | 40' Container |
|--------|-------------------|------------------|-------------|---------------|---------------|
| 150W | 14.5(kg) | 990*1320*35 | 2pcs/carton | 320 pcs | 680 pcs |
| 160W | 14.5(kg) | 990*1320*35 | 2pcs/carton | 320 pcs | 680 pcs |
| 165W | 14.5(kg) | 990*1320*35 | 2pcs/carton | 320 pcs | 680 pcs |

深圳市拓阳新能源科技有限公司

SHENZHEN TUOYANG NEW ENERGY CO.,LTD

Tel: +86-755-2305 5561 Mobile : +86-13717084860

www.sztuoyang.com

Email:szsyty@163.com

