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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Trom Solar  
K Series 200-250  
K Series 230**

Also available on the web at  
[EnergyPal.com/trom-solar-solar-panels/k-series-230](http://EnergyPal.com/trom-solar-solar-panels/k-series-230)

**Trom Solar Photovoltaic modules offer high efficiencies, long consistent performance life reliable operations for both on and off grid applications.**

1. Low power module precisely manufactured to achieve top most module conversion efficiency in the industries.
2. AR coated cell surface to reduce the reflection of sunlight and BSF (Back Surface field) structure to improve cell conversion efficiency.
3. Due to use of high quality and IEC certified raw materials from International reputed brands we assure our modules reliability, durability and consistency when exposed to real usage.
4. Rugged double-coated aluminum-alloy frame for longevity in adverse conditions
5. Every batch of cells is individually inspected for optical & electrical parameters to ensure aesthetic appeal & consistent performance when the module is applied to an array.
6. Manufactured under ISO 9001:2000 QMS & ISO 14001:2004 EMS.

## 120 - 250 Watt Product Series



### Constructive Characteristics

Cells	: 72 (6 x 12 ) Mono/Multi crystalline silicon cells 125 x 125 mm
Contacts	: Full length solder dipped & Electroplated
Laminate	: EVA
Front Face	: Anti-reflective structured tempered glass
Back Face	: Multi layer Laminate of Tedlar Material
Frame	: Anodized aluminum 40mm high
Junction Boxes	: IP 65 class 1000 V DC
Cable and connectors	: 2 core x 4 sq. mm x 1 meter
Diodes	: Includes Schottkey by pass diodes

### Constructive Characteristics

MNRE	: Indian GVT approved
TEC	: National & International quality and performance certified

### K - SERIES

#### Electrical Characteristics

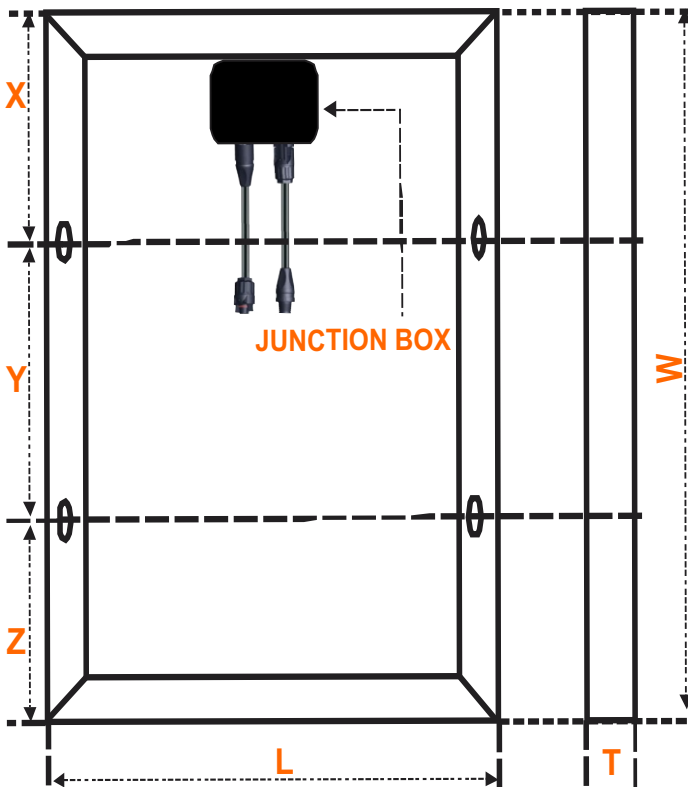
Power (Pmax) in Watts	120 Watt	150 Watt	180 Watt	200 Watt	220 Watt	230 Watt	240 Watt	250 Watt
Open Circuit Voltage (Voc) in Volts	21.6	43.2	45.2	32	36	36	36	36
Short Circuit Current (Isc) in Amps	7.62	4.8	5.2	8.4	8.15	8.5	9.13	9.51
Voltage at Maximum Power (Vmp) in Volts	17	34.3	35	26	29	29	29	29
Current at Maximum Power (Imp) in Amps	7.06	4.37	5.5	7.69	7.59	7.9	8.1	8.59
Maximum System Voltage	1000	1000	1000	1000	1000	1000	1000	1000

#### Physical Parameters (refer DWG below)

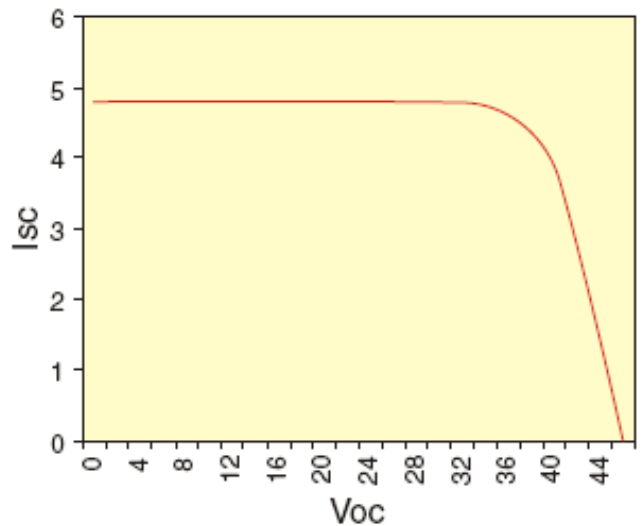
Length (L) mm	1480	1480	1480	1640	1640	1640	1640	1640
Width (W) mm	655	990	990	990	990	990	990	990
Thickness (T) mm	45	45	45	45	45	45	45	45
Weight - KG	10.85	14.5	14.5	17.6	17.6	17.6	17.6	17.6
Mounting Holes Pitch (X) - mm	340	340	340	420	420	420	420	420
Mounting Holes Pitch (Y) - mm	800	800	800	800	800	800	800	800
Mounting Holes Pitch (Z) - mm	340	340	340	420	420	420	420	420

Data under STC : 1000w/m<sup>2</sup> , 25 °C, AM=1.5, Tolerance : 5%

### Dimensions Drawing



### IV Curves



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