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EnergyPal

Solar Panel Guide Specification Data Sheet

Deshmukh Solar Energy Pvt. Ltd.

DS 220-230

DS 230

Also available on the web at
EnergyPal.com/deshmukh-solar-energy-pvt-ltd-solar-panels/ds-230

SOLAR PV MODULE - 180 W to 260 W

Technical Specifications									
Model Name	DS -180	DS-190	DS -200	DS 220	DS-230	DS-235	DS-240	DS-250	DS-260
No of Cells	48 cells in series			54 cells in series		60 cells in series			
Pmp (Wp)	180	190	200	220	230	235	240	550	260
Voc (V)	28.8	28.8	28.8	32.5	32.5	36.0	36.0	36.0	36.0
Isc (I)	8.1	8.42	8.89	8.62	8.95	8.32	8.56	8.92	9.10
Vmp (V)	24.0	24.0	24.0	27.0	27.0	30.0	30.0	30.0	30.0
Imp(I)	7.51	7.92	8.35	8.16	8.52	7.85	8.02	8.35	8.68
Module Efficiency	13.74	14.6	15.3	15.0	15.7	14.2	14.8	15.5	16.1
Dimension (mm)	1324 X 989 X 35	1324 X 989 X 35	1324 X 989 X 35	1482 X 989 X 35	1482 X 989 X 35	1639 X 989 X 35	1639 X 989 X 35	1639 X 989 X 35	1639 X 989 X 35
Weight (Kgs)	16.5	16.5	16.5	17.8	17.8	19.5	19.5	19.5	19.5
X- Pitch	938	938	938	938	938	938	938	938	938
Y-Pitch	524	524	524	682	682	839	839	839	839

All electrical parameters specified at Standard Test Conditions 25 degree C cell temperature 100m W/cm² irradiance Air Mass(AM) 1.5

Raw Materials

Solar Cells	156mm X 156mm High Efficiency polycrystalline 3 bus bar cells
Junction Box	IP-65 rated with 3 bypass diodes (For modules higher than 200 Watts)
Frames	15 microns silver anodised aluminium frames
Front Glass	3.2 mm low Iron tempered glass with high transmittivity
Cables and Connectors	1000 mm long 4 mm ² cables with MC4 compatible connectors (Higher than 200 Watts)

Operating Characteristics

Normal operating cell temperature	45.5°C
Temperature coefficient (Pmax)	-0.45 % / °C
Temperature coefficient (Voc)	-0.36 % / °C
Temperature coefficient (Isc)	-0.043 % / °C

Normal Operating Conditions

Operating module temperature	-40 °C to +85 °C
Maximum Voltage DC	DC 600V/1000V
Maximum load	5400 Pa
Application Classification (to IEC 61730)	A
Fire classification (to IEC 61730)	C

Certificates

Our modules have been tested by UL according to the Standards of IEC 61215 for design IEC 61701 (Salt mist corrosion test) performance and IEC 61730 (Safety class I & II) CE.

NOTE

Warranty : Up to 25 years Limited Extended Warranty.

Refer to DSEPL warranty document for detail warranty terms and conditions.

Due to constant product Improvement DSEPL reserve the right to amend the above specifications without prior notice.