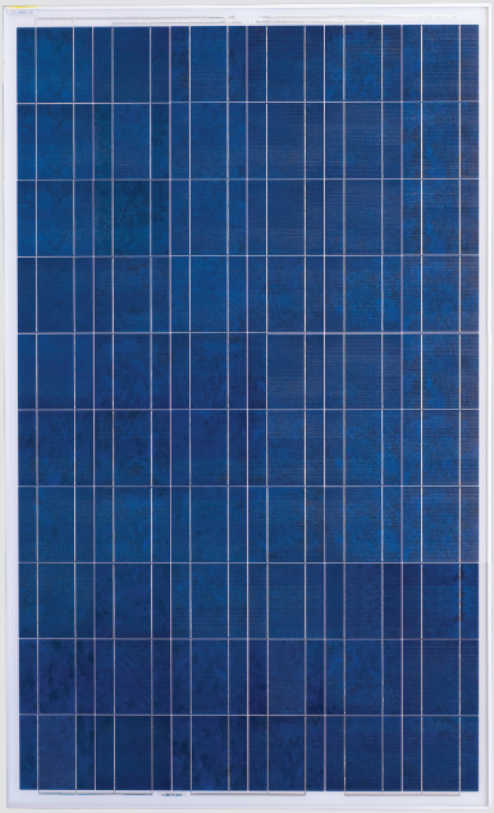
SINODEU 中德

ZD230-20P
ZD225-20P
ZD220-20P
ZD215-20P
ZD210-20P
ZD205-20P

220 Watt
POLY-CRYSTALLINE SOLAR PANEL

Features

- High conversion efficiency based on innovative photovoltaic technologies
- Withstands high wind-pressure and snow load, and extreme temperature variations
- Low voltage-temperature coefficient allows higher power output at high-temperature condition
- Outstanding low-light performance



Quality and Safety

- 25-year power output transferable warranty
- ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified factories manufacturing world class products
- Proven materials, tempered front glass, and a sturdy anodized aluminum frame allow modules to operate reliably in all kinds of complex configuration
- Ultra reliable bypass diodes prevent damage through overheating due to shaded or defective cells
- Innovative, environmentally packing method ensures modules arrived in perfect condition

Recommended Applications

- Residential roof top systems
- On-grid utility systems
- On-grid commercial systems

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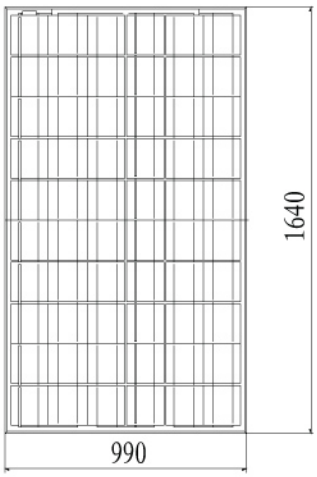
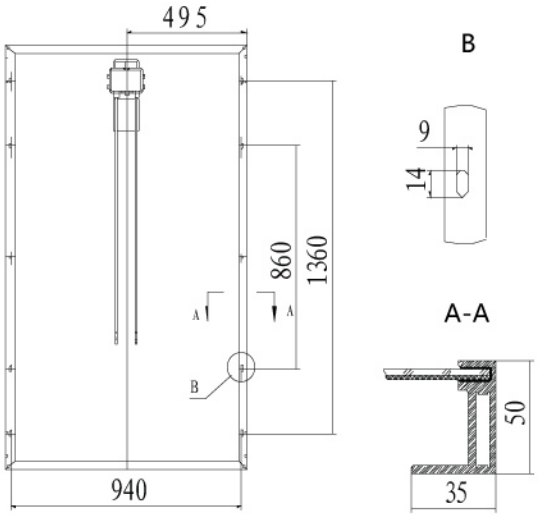
Type	ZD230-20P	ZD225-20P	ZD220-20P	ZD215-20P	ZD210-20P	ZD205-20P
Maximum Power at STC (Pmax)	230Wp	225Wp	220Wp	215Wp	210Wp	205Wp
Open Circuit Voltage(Voc)	36.7V	36.6V	36.4V	36.3V	36.1V	35.9V
Short-Circuit Current(Isc) [A]	8.54A	8.46A	8.32A	8.18A	8.11A	8.05A
Optimum Operating Voltage(Vmp) [V]	29.4V	29.2V	29V	28.8V	28.5V	28.4V
Optimum Operating Current(Imp) [A]	7.83A	7.71A	7.59A	7.47A	7.37A	7.22A
Temperature range	– 40 °C to + 90 °C	– 40 °C to + 90 °C	– 40 °C to + 90 °C	– 40 °C to + 90 °C	– 40 °C to + 90 °C	– 40 °C to + 90 °C
Maximum system voitage	1000V	1000V	1000V	1000V	1000V	1000V
Maximum Series Fuse Rating	15A	15A	15A	15A	15A	15A
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%





Mechanical Characteristics

Solar Cell	Polycrystalline solar cells (156mm×156mm)
No. of Cells	6×10 pieces
Dimension	1640×990mm (L×W)
Front glass	White toughened safety glass, 3.2 mm
Frame	Anodised aluminium profile
Junction box	with 6 bypass diodes
Cable	length 900 mm, 1×4 m^2
Cell encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back	composite film
Maximum surface load capacity	tested up to 5,400 Pa according to IEC 61215 (advanced test)
Hail	maximum diameter of 25 mm with impact speed of 23 m·s-1

Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Voltage temperature coefficients	-0.37%/K
Current temperature coefficients	+0.03%/K
Power temperature coefficients	-0.52%/K

The electrical data relates to standard test conditions [STC]: 1,000 W/m^2; AM 1,5; 25°C.
Performance deviation of Pmpp: -/+ 3%. performance deviation of Voc[V],Isc[A],Vmpp [V] and Impp [A]: -/+ 10%.
Certified in accordance with IEC 61215, and IEC 61730-1/2.

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