



WHY LDK SOLAR MODULES

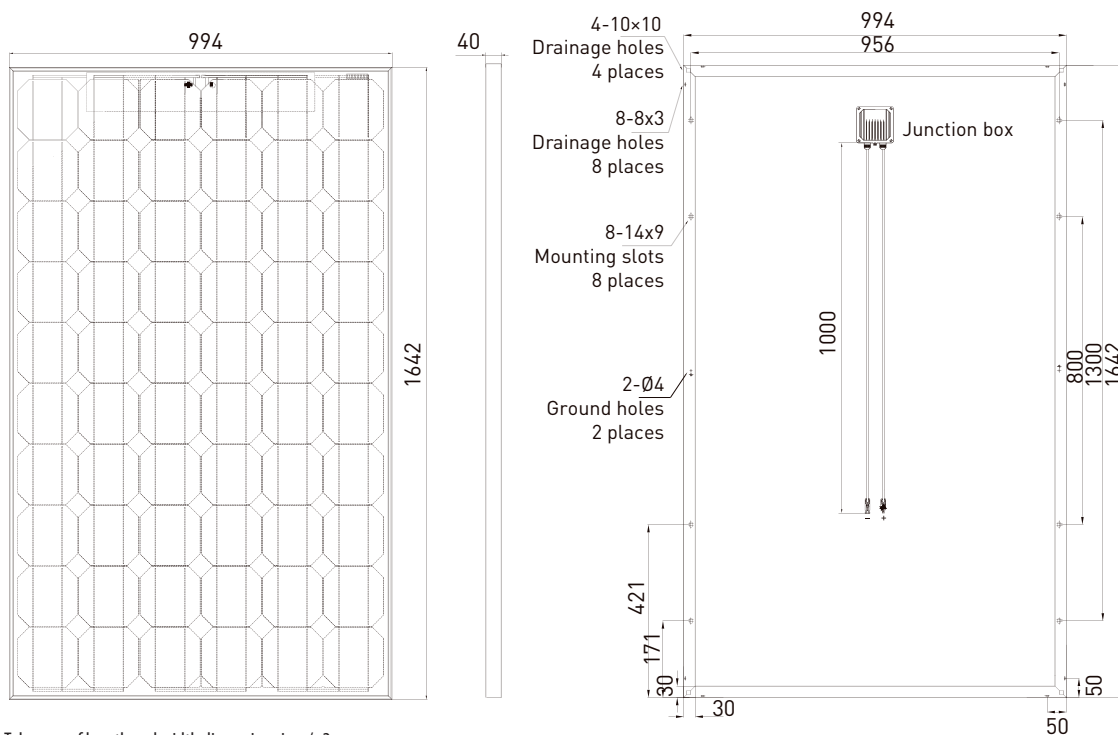
- Industry leading module power output warranty
- International quality, safety and performance certifications
- Modules manufactured in ISO 9001 certified factories
- High-reliability with guaranteed 0/+5 Wp peak power classification

WARRANTIES

- 10 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power
- 25 years for 80% of warranted minimum power

CERTIFICATES

- IEC EN 61215, IEC EN 61730-1-2, CE Conformity
- UL 1703 2002/03/15 Ed:3 Rev:2008/04/08
- ULC/ORD-C1703-01 second edition 2001/01/01
- UL and Canadian standard for safety flat-plate
- ISO 9001:2008 Quality Management System
- CEC Listed: modules are eligible for California rebates
- PV CYCLE: voluntary module take back and recycling program
- MCS The Microgeneration Certification Scheme UK



Tolerance of length and width dimensions is +/- 2 mm

ELECTRICAL CHARACTERISTICS (STC*)

| TYPE | | LDK-240D-20 | LDK-245D-20 | LDK-250D-20 |
|-----------------------------|------|-----------------------------|-------------|-------------|
| Nominal Output (Pmax) | [Wp] | 240 | 245 | 250 |
| Voltage at Pmax (Vmp) | [V] | 29.1 | 29.5 | 29.9 |
| Current at Pmax (Imp) | [A] | 8.26 | 8.32 | 8.38 |
| Open Circuit Voltage (Voc) | [V] | 37.3 | 37.6 | 37.8 |
| Short Circuit Current (Isc) | [A] | 8.88 | 8.90 | 8.92 |
| Power Classification Range | [Wp] | -0/+4.99 | -0/+4.99 | -0/+4.99 |
| Tolerance on Nominal Output | [%] | +/-3 | +/-3 | +/-3 |
| Maximum System Voltage | | IEC EN: 1000 V / UL: 1000 V | | |
| Cell Efficiency | [%] | 16.74 | 17.09 | 17.44 |
| Module Efficiency | [%] | 14.70 | 15.01 | 15.32 |

STC* (Standard Test Conditions): Irradiance 1000 W/m², Module Temperature 25 °C, Air Mass 1.5

ELECTRICAL PERFORMANCE AT NOCT

| TYPE | | LDK-240D-20 | LDK-245D-20 | LDK-250D-20 |
|-----------------------------|------|-------------|-------------|-------------|
| Nominal Output (Pmax) | [Wp] | 174 | 178 | 181 |
| Voltage at Pmax (Vmp) | [V] | 26.3 | 26.7 | 27.0 |
| Current at Pmax (Imp) | [A] | 6.61 | 6.66 | 6.70 |
| Open Circuit Voltage (Voc) | [V] | 34.5 | 34.7 | 34.8 |
| Short Circuit Current (Isc) | [A] | 7.19 | 7.21 | 7.23 |

NOCT: Irradiance 800 W/m², Module Temperature 45 +/- 2 °C, Air Mass 1.5

TEMPERATURE CHARACTERISTICS

| TYPE | LDK-D-20 Series |
|---------------------------------|--------------------|
| NOCT** | 45 +/- 2 °C |
| Temperature Coefficient of Pmax | -0.47 %/°C |
| Temperature Coefficient of Voc | -0.34 %/°C |
| Temperature Coefficient of Isc | 0.06 %/°C |
| Maximum Series Fuse Rating | 20 A |
| Operating Temperature | from -40 to +85 °C |
| Storage Temperature | from -40 to +60 °C |

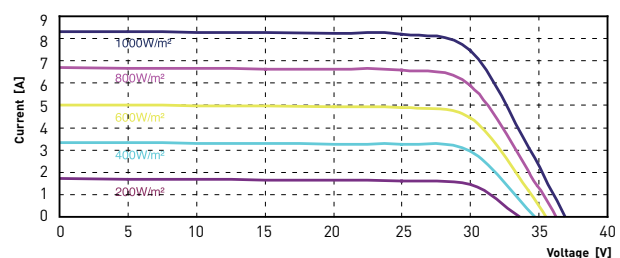
NOCT**: Nominal Operation Cell Temperature Sun 800 W/m²; Air 20 °C; wind speed 1 m/s

MECHANICAL CHARACTERISTICS

| TYPE | LDK-D-20 Series |
|--------------|--|
| Solar Cells | 60 (6x10) monocrystalline silicon solar cells 156 x 156 mm |
| Front Glass | 3.2 mm thick, tempered glass / AR coating glass |
| Backsheet | TPT (Tedlar-PET-Tedlar) / BBF |
| Encapsulant | EVA (ethylene vinyl acetate) |
| Frame | Double-layer anodized aluminium alloy |
| Diodes | 6 (3 x 2 in parallel) serviceable Bypass Diodes |
| Junction Box | IP65 rated |
| Connectors | MC4 or compatible connectors |
| Cables | Length: 1000 mm / Section: 4.0 mm ² |
| Dimensions | 1642 x 994 x 40 mm / 64.64 x 39.13 x 1.57 in |
| Weight | 19 kg / 41.9 lbs |
| Max. Load | Wind Load: 2400 Pa / Snow Load: 5400 Pa |

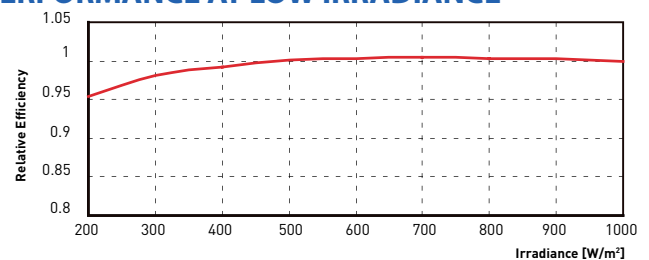
LDK Solar reserves the right to make specifications changes without any prior notice. This data sheet complies with the EN 50380 requirements. V1 - February 2012 - © LDK Solar Limited. All rights reserved. E.&O.E.

I-V CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-220D-20

PERFORMANCE AT LOW IRRADIANCE



The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (both at 25 °C and AM 1.5 spectrum) is less than 6%

PACKING CONFIGURATION

| TYPE | LDK-D-20 Series |
|-----------------------|--|
| Packing Configuration | 25 pcs. / box |
| Quantity / Pallet | 50 pcs. / pallet |
| Loading Capacity | 700 pcs. / 40 ft (High Cube Container) |

Partner:

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