

LDK 270-245

60-cell Monocrystalline PV Module Series



QUALITY & EFFICIENCY BENEFITS

Up to 19%
Cell efficiency

Highest performance enabled by the latest LDK Solar Wafer Technology

0.5 kg
Weight reduction

New lighter frame design: reduced weight enables easier handling for installers

PID
Resistance

Modules are designed to withstand PID (Potential Induced Degradation)*

+2%
Light transmission

High light transmission Anti-Reflective Glass with improved self-cleaning capability

0/+5W
Positive tolerance

Positive power tolerance for reliable power output

* PID test conditions: Voltage of -1000V applied during 168 hours at 25 ±3 °C. Module covered with Al-foil surface.

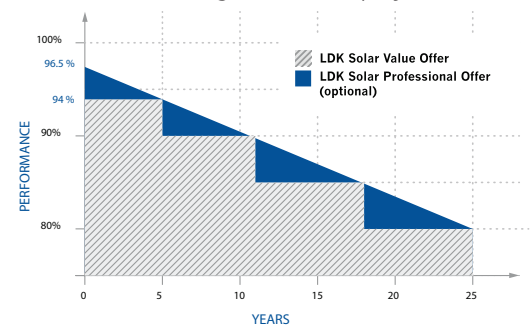
INSURANCE & WARRANTY BENEFITS

100%
Project insurance protection

LDK Solar Secure Insurance is a comprehensive LDK Solar product and power warranties – even against bankruptcy – worldwide.

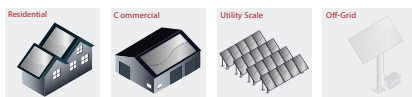
10-12 years
Product warranty**

25 years
4-step/linear power warranty**



** LDK Solar Value Offer includes: 10 years product warranty + 25 years 4-step power warranty + 1 year LDK Solar Secure Insurance. Optional upgrade to LDK Solar Professional Offer: 12 years product warranty + 25 years linear power warranty + 2 years LDK Solar Secure Insurance.

APPLICATION RECOMMENDATION



QUALITY & ENVIRONMENTAL CERTIFICATES

ISO 9001 Quality Standards • ISO 14001 Environmental Standards • OHSAS 18001 Occupational Health & Safety Standards



LDK 270-245

60-cell Monocrystalline PV Module Series



ELECTRICAL CHARACTERISTICS (STC*)

Module Type	LDK	270 MA	265 MA	260 MA	255 MA	250 MA	245 MA
Nominal Power (Pmax)	[W]	270	265	260	255	250	245
Minimum Power Output	[W]	270	265	260	255	250	245
Voltage at Pmax (Vmp)	[V]	31.5	31.1	30.7	30.3	29.9	29.5
Current at Pmax (Imp)	[A]	8.58	8.53	8.48	8.43	8.38	8.32
Open Circuit Voltage (Voc)	[V]	38.9	38.6	38.3	38.1	37.8	37.6
Short Circuit Current (Isc)	[A]	8.99	8.97	8.95	8.93	8.92	8.90
Tolerance on Nominal Power	[W]	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Maximum System Voltage	[V]	IEC EN / UL: 1000 V					
Cell Efficiency	[%]	18.83	18.48	18.13	17.79	17.44	17.09
Module Efficiency	[%]	16.74	16.43	16.12	15.81	15.50	15.19

STC* (Standard Test Conditions): Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM 1.5
Best in Class AAA solar simulator (IEC 60904-9) is used, with power measurement uncertainty within ±3%

ELECTRICAL CHARACTERISTICS AT NOCT **

Module Type	LDK	270 MA	265 MA	260 MA	255 MA	250 MA	245 MA
Output Power (Pmax)	[W]	196	192	189	185	181	178
Voltage at Pmax (Vmp)	[V]	28.6	28.2	27.8	27.4	27.0	26.7
Current at Pmax (Imp)	[A]	6.86	6.82	6.78	6.74	6.70	6.66
Open Circuit Voltage (Voc)	[V]	35.8	35.6	35.3	35.1	34.8	34.7
Short Circuit Current (Isc)	[A]	7.28	7.27	7.25	7.24	7.23	7.21

NOCT** (Nominal Operating Cell Temperature): Irradiance 800 W/m², Ambient Temperature 20 °C, Wind speed 1 m/s
Best in Class AAA solar simulator (IEC 60904-9) is used, with power measurement uncertainty within ±3%

TEMPERATURE CHARACTERISTICS

NOCT	45 ± 2 °C
Pmax Temperature Coefficient (γ)	- 0.47 %/°C
Voc Temperature Coefficient (β)	- 0.34 %/°C
Isc Temperature Coefficient (α)	0.06 %/°C
Series Fuse Maximum Rating	20 A
Operating Temperature	From - 40 to +85 °C
Storage Temperature	From - 40 to +60 °C

MECHANICAL CHARACTERISTICS

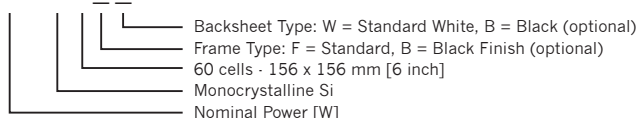
Solar Cells	60 (6x10) monocrystalline silicon - 156 x 156 mm [6 inch] solar cells
Front Glass	3.2 mm [0.13 in] high-transparency AR-coated tempered glass
Back Cover	White or Black (optional) Backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Double-layer anodized aluminium alloy, silver or black finish (optional)
Junction Box	IP65 rated, with serviceable bypass diodes
Cables	UV resistant solar cable, 1000 mm [39.37 in] - section 4.0 mm ² [12 AWG]
Connectors	MC4 compatible connectors
Dimensions	1636 x 986 x 35 mm [64.41 x 38.82 x 1.38 in]
Weight	18.5 kg [40.8 lbs]
Max. Load	Wind Load: 2400 Pa / Snow Load: 5400 Pa

PACKING CONFIGURATION

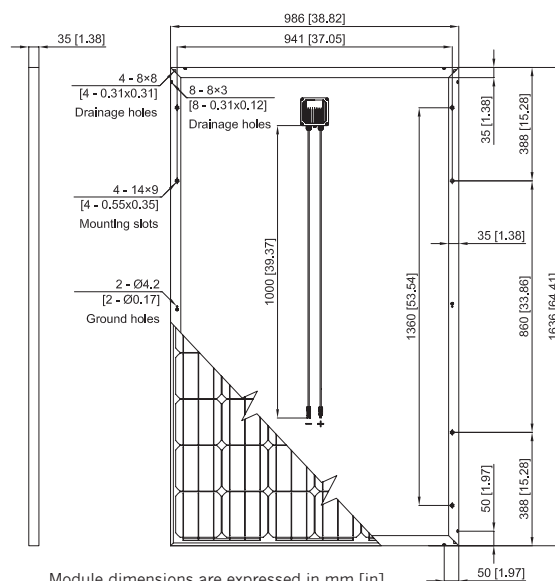
Packing Configuration	30 pcs. / box
Quantity / Pallet	60 pcs. / pallet
Loading Capacity	840 pcs./40 ft High Cube Container

MODULE TYPE CODING RULE

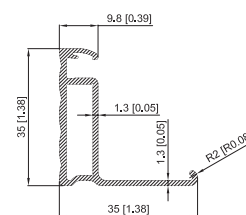
LDK xxx MA _ _



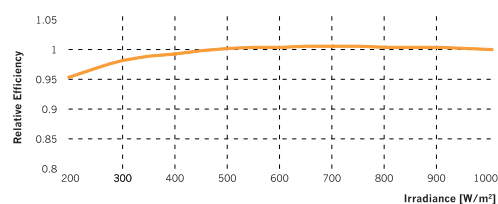
DIMENSIONS



NEW FRAME CROSS SECTION

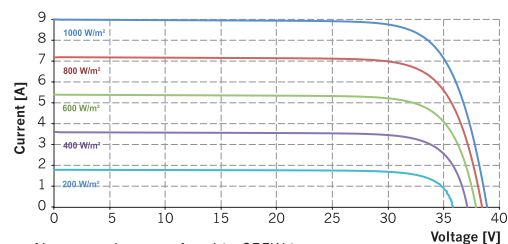


PERFORMANCE AT LOW IRRADIANCE



The typical relative change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 °C and spectrum AM 1.5) is less than 5%

I-V CURVE AT DIFFERENT IRRADIANCE LEVELS



PRODUCT OPTIONS

