

# LDK 330-305

72-cell Multicrystalline PV Module Series



## QUALITY & EFFICIENCY BENEFITS

**Up to 18.5%**  
Cell efficiency

Highest performance enabled by the latest LDK Solar Wafer Technology

**1.3 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

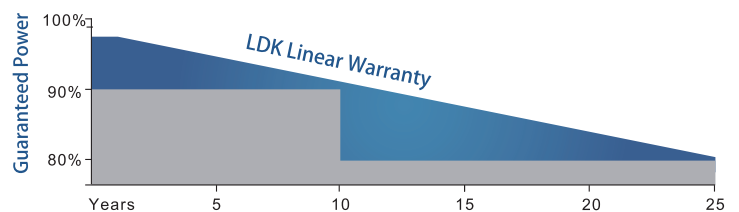
**0/+5W**  
Positive tolerance

Positive power tolerance for reliable power output

\* PID test conditions: voltage of -1000V applied during 48 hours at 60±2°C, 85±5%RH

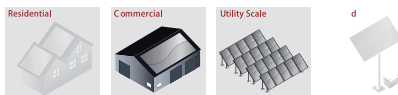


## WARRANTY BENEFITS



LDK Solar offer 10 years product warranty and 25 years linear warranty

### APPLICATION RECOMMENDATION



## QUALITY & ENVIRONMENTAL CERTIFICATES

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



# LDK 330-305

## 72-cell Multicrystalline PV Module Series



### ELECTRICAL CHARACTERISTICS (STC\*)

Module Type	LDK	330	325	320	315	310	305
Nominal Power (Pmax)	[W]	330	325	320	315	310	305
Minimum Power Output	[W]	330	325	320	315	310	305
Voltage at Pmax (Vmp)	[V]	38.1	37.7	37.4	37.2	36.9	36.6
Current at Pmax (Imp)	[A]	8.67	8.67	8.56	8.48	8.41	8.35
Open Circuit Voltage (Voc)	[V]	46.5	46.3	46.0	45.8	45.5	45.2
Short Circuit Current (Isc)	[A]	9.28	9.21	9.12	9.04	8.92	8.85
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	18.55	18.27	17.98	17.69	17.41
Module Efficiency	[%]	17.11	16.85	16.59	16.33	16.07	15.81

STC\* (Standard Test Conditions): Irradiance 1000 W/m<sup>2</sup>, 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	330	325	320	315	310	305
Output Power (Pmax)	[W]	240	237	234	230	226	222
Voltage at Pmax (Vmp)	[V]	34.9	34.5	34.3	34.0	33.7	33.3
Current at Pmax (Imp)	[A]	6.94	6.89	6.85	6.77	6.72	6.67
Open Circuit Voltage (Voc)	[V]	43.1	42.9	42.6	42.3	42.1	41.8
Short Circuit Current (Isc)	[A]	7.49	7.42	7.35	7.30	7.24	7.20

NOCT\*\* (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, 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)	- 0.42 %/°C
Voc Temperature Coefficient (β)	- 0.32 %/°C
Isc Temperature Coefficient (α)	0.06 %/°C
Series Fuse Maximum Rating	15 A
Operating Temperature	From - 40 to +85 °C
Storage Temperature	From - 40 to +60 °C

### MECHANICAL CHARACTERISTICS

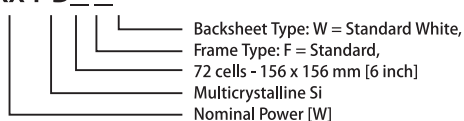
Solar Cells	72 (6x12) multicrystalline silicon - 156 x 156 mm [6 inch] solar cells
Front Glass	4 mm [0.16 in] high-transparency AR-coated tempered glass
Back Cover	White Backsheet
Encapsulant	EVA (Ethylene-Vinyl Acetate)
Frame	Anodized aluminium alloy
Junction Box	Submarine IP67 rated, with serviceable bypass diodes
Cables	UV resistant solar cable, 1200 mm [47.24 in] - section 4.0 mm <sup>2</sup> [12 AWG]
Connectors	MC4 compatible connectors
Dimensions	1956 x 986 x 40 mm [77.01 x 38.82 x 1.57 in]
Weight	27 kg [59.52 lbs]
Max. Load	Wind Load: 2400 Pa / Snow Load: 5400 Pa

### PACKING CONFIGURATION

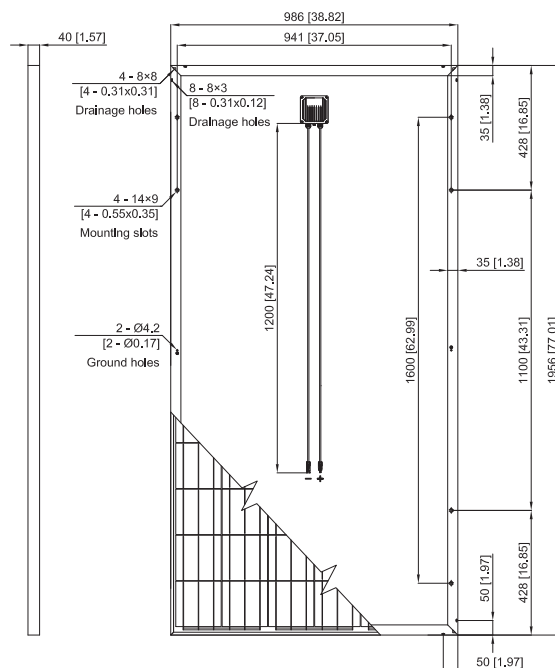
Quantity / Pallet	27 pcs/pallet	47 pcs/pallet
Pallet / Container	22 pallets/container	5 pallets/container
Loading Capacity	594 pcs./40 ft High Cube Container	235 pcs./20 ft Normal Container

### MODULE TYPE CODING RULE

LDK xxx PB

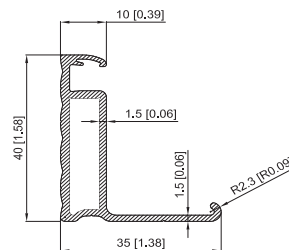


### DIMENSIONS

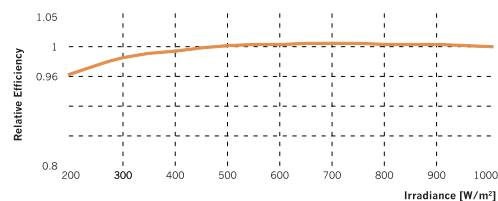


Module dimensions are expressed in mm [in] with tolerance ±2 mm [±0.079 in]

### NEW FRAME CROSS SECTION

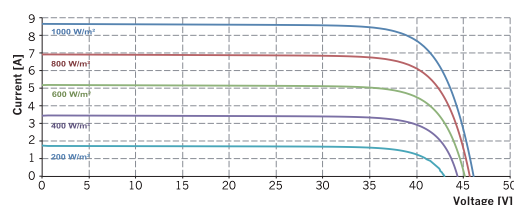


### PERFORMANCE AT LOW IRRADIANCE



The typical relative change in module efficiency at an irradiance of 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> (both at 25 °C and spectrum AM 1.5) is less than 4.0%

### I-V CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphs are referred to 330W type