

PV MODULES

**LDK SOLAR ENERGY
SYSTEMS MODULES**

3.0 GW

WAFER PRODUCTION
CAPACITY

INTRODUCTION

POLYSILICON:
11.000 MT TODAY

25.000 MT BY END OF 2011



LDK SOLAR
THE WORLD'S LARGEST VERTICALLY
INTEGRATED MANUFACTURER



INGOTS/WAFER:
3.0 GW TODAY

4.0 GW END OF 2011



CELLS:
180 MW TODAY

1.26 GW BY END OF 2011



BEST IN CLASS
TECHNOLOGY
AND COST EFFECTIVE



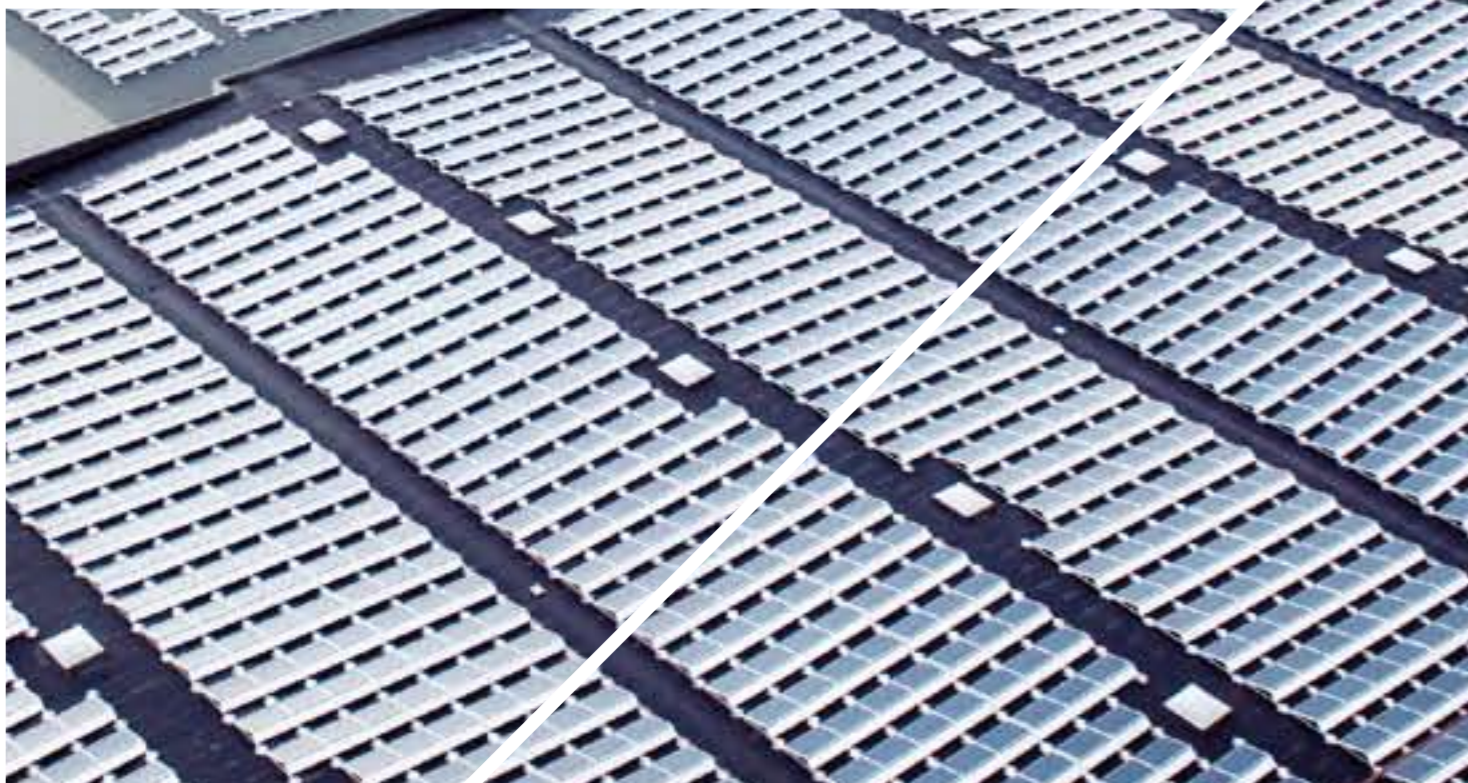
MODULES:
1.5 GW TODAY

2.5 GW END OF 2011

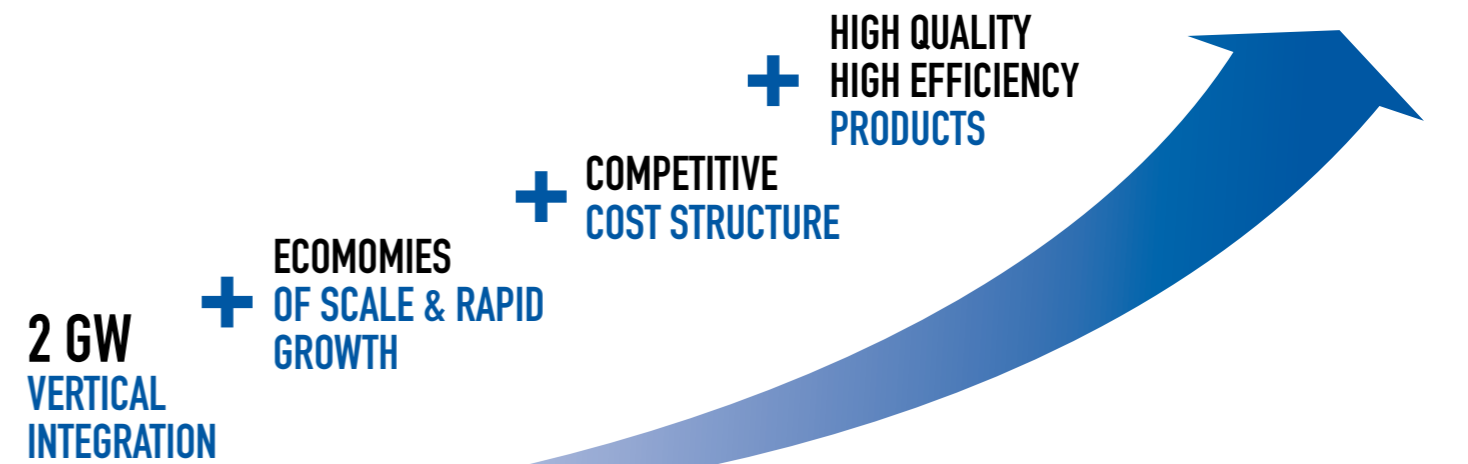
VERTICAL INTEGRATION



PROVEN COST REDUCTION ROAD MAP

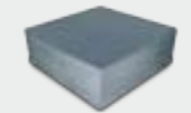




FORMULA GRID PARITY



LDK's ATTRACTIVE GROWTH STRATEGIES



LDK Silicon	LDK Ingots	LDK Wafer	LDK Cells	LDK Module
	Multi  Mono 	Multi  Mono 	Multi  Mono 	Multi  Mono 
IN-HOUSE PRODUCTION	IN-HOUSE	IN-HOUSE	IN-HOUSE & OEM	IN-HOUSE
Produces solar and semiconductor grade polysilicon and chemicals 11.000 MT capacity today 25.000 MT capacity by end of 2011	Multi - and mono-crystalline ingoting capabilities 3.0 GW capacity today 4.0 GW capacity by end of 2011	World's largest wafering company 3.0 GW capacity today 4.0 GW capacity by end of 2011	R&D and investment in process 180 MW capacity today 1.26 GW capacity by end of 2011	Acquired best solar module capacity 1.5 GW capacity today 2.5 GW capacity by end of 2011

11,000 MT
today

LDK POLYSILICON

As part of our vertical integration strategy, LDK Solar constructed a polysilicon plant with two production facilities near our wafer production facilities. The first facility has a planned installed annualized production capacity of 3,000 metric-ton. The second facility has three separate trains, each with a planned 5,000-metric-ton annualized production capacity. The installation of a closed-loop production process has been completed in both facilities. Our closed-loop polysilicon production process is designed so that LDK Solar is able to produce and use many of the key chemicals and gases required to make silicon, such as TCS, HCl and hydrogen, while also recycling the residual STC.

THE WORLD'S LARGEST SINGLE POLYSILICON PLANT SITE

TECHNICAL SPECIFICATION 11N

Silicon Grade	N-Type Resistivity (u.cm)	P-Type Resistivity (u.cm)	Carbon Content (atoms/cm ³)
Semi-conductor Grade	> 300	> 3000	> 1.5x1E16
Solar Grade	> 50	> 500	> 2.5x1E16



LDK INGOTS

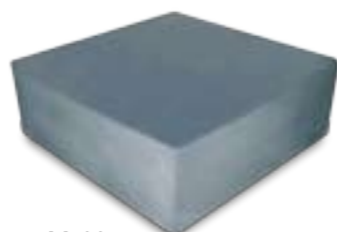


LDK INGOTS

3.0 GW today

At LDK Solar, we produce larger monocrystalline and multicrystalline ingots. This innovation enables us to increase our yield of ingots and increase the utilization rates of our facilities thus reducing costs by reaching economies of scale. For example, LDK Solar produced multicrystalline ingot weight of 800 kg which will increase throughput production efficiencies by reducing manufacturing bottlenecks. Our ingot manufacturing facilities are located in Xinyu City in Jiangxi province in China

LARGER INGOTS PRODUCTION MEANS COSTS REDUCTION



Multi



Mono

LDK WAFERS

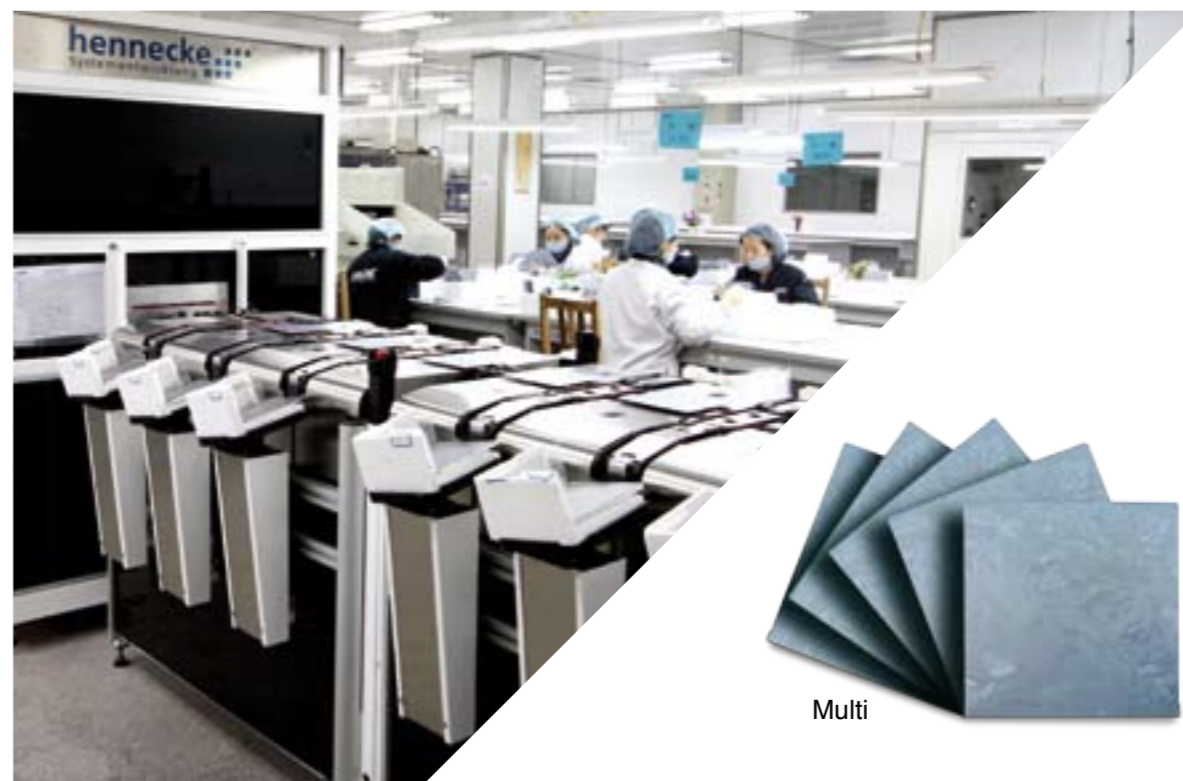


LDK WAFERS

3.0 GW today

As the largest multicrystalline wafer provider in the world, LDK Solar has an established track record of consistently delivering high quality solar wafers to our valued customers. We take pride in providing technologically advanced and reliable solar wafers. At LDK Solar, we utilize state-of-the-art wafer processing equipment combined with proprietary know-how that enables us to make efficient use of polysilicon and therefore lower the costs. Our wafer manufacturing facilities are located in Xinyu City in Jiangxi province in China.

THE LARGEST MULTICRYSTALLINE WAFER PROVIDER IN THE WORLD

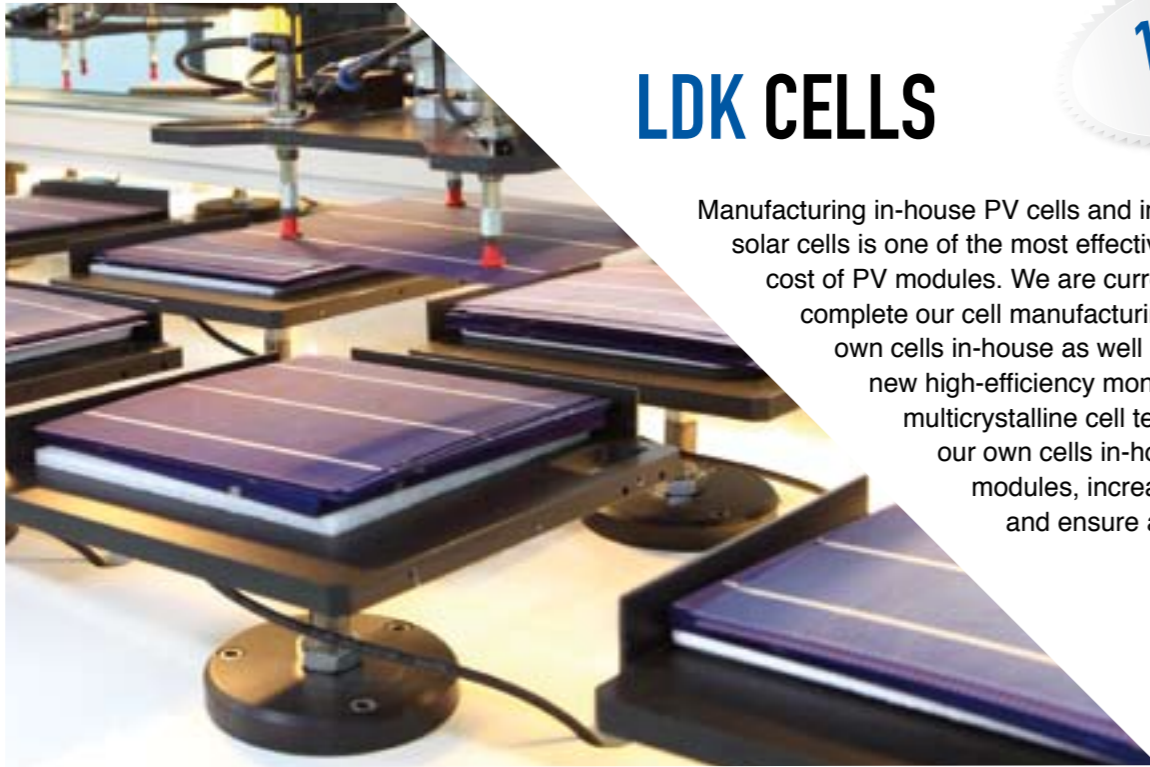


Multi



Mono

LDK CELLS



LDK CELLS

180 MW today

Manufacturing in-house PV cells and increasing the efficiency of solar cells is one of the most effective drivers to reduce the cost of PV modules. We are currently in the process to complete our cell manufacturing lines to produce our own cells in-house as well as working on developing new high-efficiency monocrystalline and multicrystalline cell technology. Manufacturing our own cells in-house will reduce the cost of modules, increase quality management, and ensure a stable supply of cells.

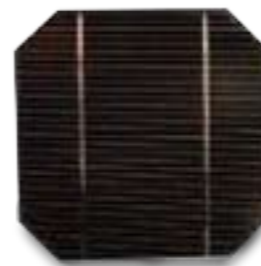
IN-HOUSE MANUFACTURING OF PV CELLS



Multi



Mono



LDK MODULES



1.5 GW today

LDK SOLAR MODULES

- Vertically integrated manufacturing
- Large scale production facilities
- Proven low-cost manufacturing
- High-quality, high-efficiency products
- Leading global wafer supplier
- Diversified global customer base

Mono



Multi



MAKING SOLAR ENERGY ACCESSIBLE FOR EVERYONE

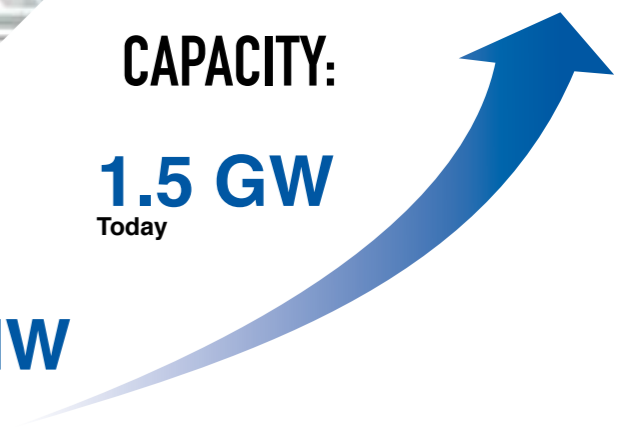


2.5 GW
By the end of 2011

CAPACITY:

1.5 GW
Today

600 MW
April 2010



MODULES: RELIABLE MODULES FOR CUSTOMERS

MODULE QUALITY



Manufactured under stringent quality contract standards:

- 0/+5 Wp power classification
- high conversion efficiency
- ability to withstand wind and snow load, and extreme temperature variations
- rigorous quality control meeting the highest international standards
- industry leading 25 year warranty

MODULE WARRANTY



One of the most comprehensive warranties in the solar industry:

- materials and workmanship - covered for 25 years
- power rating - tight power tolerances within +/- 3% of the module nameplate rating
- start date - from the date of sale, not the date of manufacture
- transferability - transferable to future system owners unlike other standard warranties

MODULE INSURANCE

MUNICH-RE INSURANCE

Banking institutions want protection guarantees on their investments as part of a debt financing package:

- Europe's largest insurance provider, Munich Re, provides an insurance solution which covers the performance warranty of modules
- protects our customers and their bankers over the 25 year warranty term
- strengthens customers project financing package by removing performance risk factor and doubt of warranty support

MODULE RECYCLING



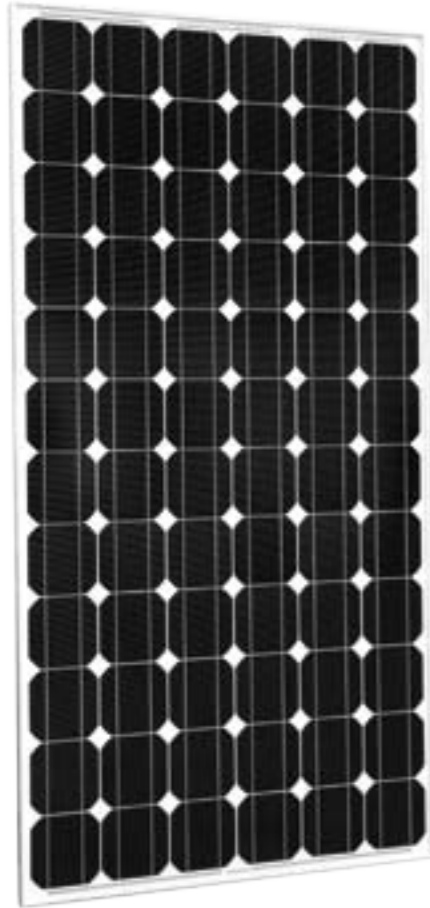
Since beginning of 2010 LDK Solar is proud member of PV Cycle Organization

LDK Solar is committed to finding new ways to make our solar modules even more environmentally friendly, from increasing both cell and production efficiencies, to proactively adopting recycling programs for end-of-life PV modules

MONOCRYSTALLINE MODULES



160D-165D-170D-175D-180D-185D-190D-195D-200D-24 (S) NEW DIMENSIONS



WHY LDK SOLAR MODULES

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

WARRANTIES

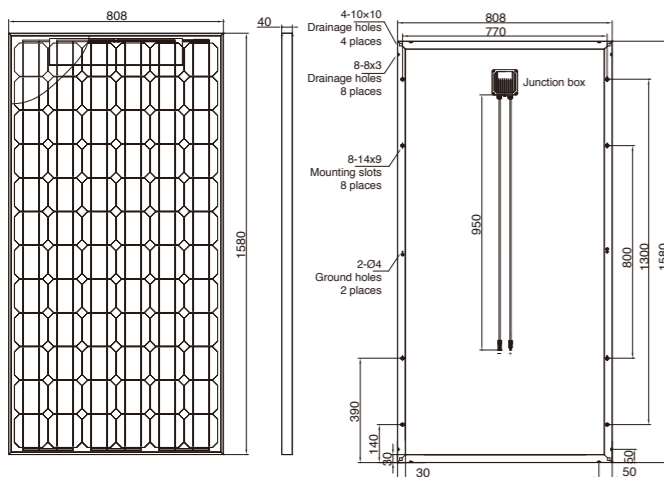
- 5 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power
- 25 years for 80% of warranted minimum power

CERTIFICATES

- IEC: IEC 61215, IEC 61730 (1&2), conformity to CE
- UL1703 2002/03/15 Ed:3 Rev: 2004/06/30
- ULC/ORD-C1703-01 second edition 2001/01/01
- UL and Canadian standard for safety flat-plate
- ISO9001:2008 Quality Management System
- CEC Listed: modules are eligible for California rebates
- PV Cycle: voluntary module take back and recycling program

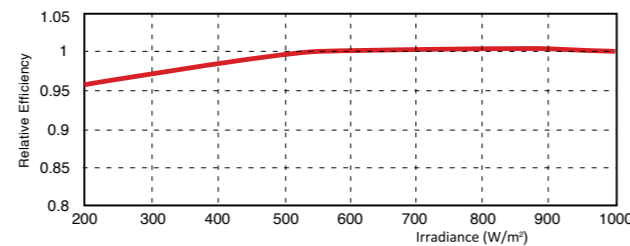


DIMENSIONS



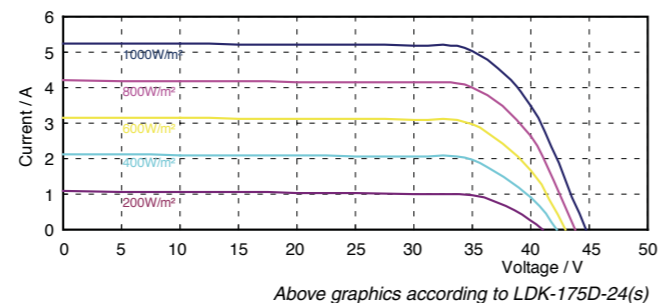
Tolerance of length and width dimensions is ± 2 mm

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%

IV CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-175D-24(s)

ELECTRIC CHARACTERISTICS (STC*)

TYPE	160D-24(s)	165D-24(s)	170D-24(s)	175D-24(s)	180D-24(s)	185D-24(s)	190D-24(s)	195D-24(s)	200D-24(s)
Nominal Output (Pmax) [W]	160	165	170	175	180	185	190	195	200
Voltage at Pmax (Vmp) [V]	35.0	35.2	35.4	35.9	36.2	36.9	37.7	37.9	38.1
Current at Pmax (Imp) [A]	4.6	4.68	4.76	4.87	4.98	5.02	5.05	5.16	5.27
Open Circuit Voltage (Voc) [V]	44.0	44.2	44.5	44.7	44.9	45.1	45.2	45.3	45.4
Short Circuit Current (Isc)	5.38	5.40	5.42	5.43	5.46	5.48	5.51	5.54	5.57
The power tolerance is +/- 3% referred to the Nominal Output									
Maximum System Voltage	IEC: 1000V / UL: 600 V								
Cell Efficiency	15.37	15.85	16.33	16.81	17.28	17.77	18.25	18.73	19.21
Module Efficiency	12.53	12.92	13.32	13.71	14.10	14.49	14.88	15.27	16.67

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	160D-24(s)	165D-24(s)	170D-24(s)	175D-24(s)	180D-24(s)	185D-24(s)	190D-24(s)	195D-24(s)	200D-24(s)
Nominal Output (Pmax)	116	120	123	127	130	134	138	142	146
Voltage at Pmax (Vmp)	29.8	30.7	31.3	32.3	32.8	33.6	34.6	35.5	36.4
Current at Pmax (Imp)	3.89	3.91	3.93	3.94	3.96	3.98	3.99	4.01	4.03
Open Circuit Voltage (Voc)	40.5	40.7	41.0	41.2	41.3	41.5	41.6	41.8	42
Short Circuit Current (Isc)	4.36	4.37	4.39	4.40	4.42	4.44	4.46	4.48	4.50

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

TEMPERATURE CHARACTERISTICS

TYPE	LDK-D-24 Series (s)
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	10 A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +60°C

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

MECHANICAL CHARACTERISTICS

TYPE	LDK-D-24 Series (s)
Solar Cells	72 (6x12) monocrystalline silicon solar cells 125 x 125 mm
Front Cover	3.2 mm thick, Tempered glass / AR coating glass
Back Cover	TPT (Tedlar-PET-Tedlar) / BBF
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Diodes	6 Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 950 mm / Section: 4.0 mm ²
Dimension	1580 x 808 x 40 mm / 62.4 x 31.8 x 1.6 inches (new dimensions)
Weight	15.6 kg / 34.4 lbs
Max. Load	Wind Load: 2400Pa / Snow Load: 5400 Pa

PACKING CONFIGURATION

TYPE	LDK-D-24 Series (s)
Packing Configuration	25 pcs./box
Quantity/Pallet	50 pcs./pallet
Loading Capacity	700 pcs. / 40 ft (H)

MONOCRYSTALLINE MODULES



200D-205D-210D-215D-220D-225-230D-240D-245D-250D-20 (S) NEW DIMENSIONS



WHY LDK SOLAR MODULES

- Industry leading module power output warranty
- International quality, safety and performance certifications
- Modules manufactured at ISO 9001 certified factories
- High-reliability with guaranteed 0/+5W peak power classification
- Module performance reinsurance policy (Munich RE)

WARRANTIES

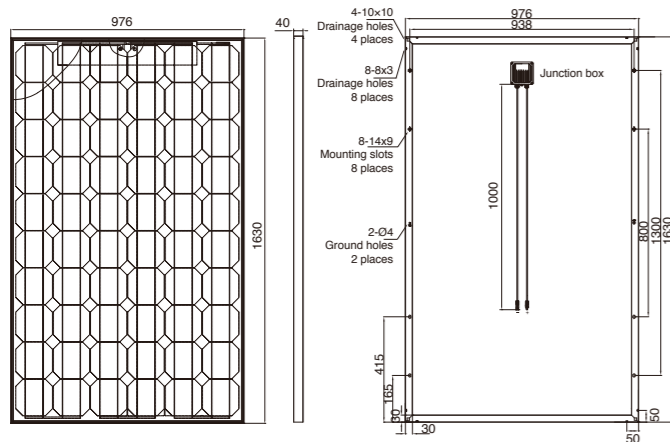
- 5 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power
- 25 years for 80% of warranted minimum power

CERTIFICATES

- IEC: IEC 61215, IEC 61730 (1&2), conformity to CE
- UL1703 2002/03/15 Ed:3 Rev: 2004/06/30
- ULC/ORD-C1703-01 second edition 2001/01/01
- UL and Canadian standard for safety flat-plate
- ISO9001:2008 Quality Management System
- CEC Listed: modules are eligible for California rebates
- PV Cycle: voluntary module take back and recycling program

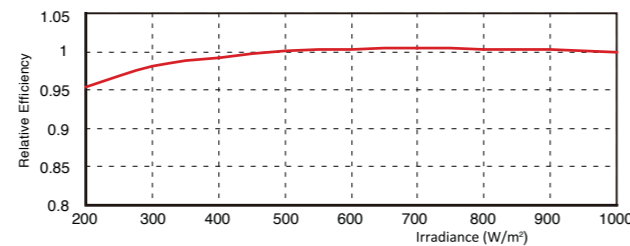


DIMENSIONS



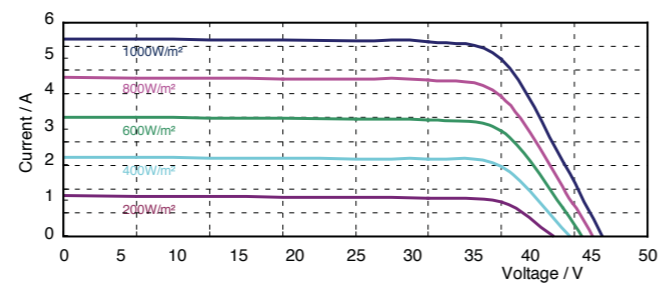
Tolerance of length and width dimensions is ± 2 mm

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%

IV CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-220D-20(s)

ELECTRIC CHARACTERISTICS (STC*)

TYPE	200D-20(s)	205D-20(s)	210D-20(s)	215D-20(s)	220D-20(s)	225D-20(s)	230D-20(s)	235D-20(s)	240D-20(s)	245D-20(s)	250D-20(s)
Nominal Output (Pmax) [W]	200	205	210	215	220	225	230	235	240	245	250
Voltage at Pmax (Vmp) [V]	29.5	29.7	29.9	30.6	31.2	31.5	31.8	32.0	32.2	32.4	32.6
Current at Pmax (Imp) [A]	6.78	6.91	7.02	7.03	7.05	7.15	7.23	7.35	7.45	7.56	7.67
Open Circuit Voltage (Voc) [V]	36.1	36.4	36.6	36.7	36.9	37.0	37.2	37.2	37.3	37.4	37.5
Short Circuit Current (Isc)	7.68	7.73	7.78	7.90	8.01	8.11	8.21	8.30	8.39	8.48	8.57
The power tolerance is +/- 3% referred to the Nominal Output											
Maximum System Voltage	IEC: 1000V / UL: 600 V										
Cell Efficiency	14.37	14.74	15.09	15.46	15.81	16.18	16.56	16.90	17.25	17.51	17.93
Module Efficiency	12.57	12.89	13.20	13.51	13.83	14.14	14.46	14.77	15.09	15.40	15.71

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	200D-20(s)	205D-20(s)	210D-20(s)	215D-20(s)	220D-20(s)	225D-20(s)	230D-20(s)	235D-20(s)	240D-20(s)	245D-20(s)	250D-20(s)
Nominal Output (Pmax)	145	149	152	156	159	163	167	170	174	178	181
Voltage at Pmax (Vmp)	25.3	25.8	26.1	26.3	26.5	26.8	27.1	27.3	27.7	28.0	28.2
Current at Pmax (Imp)	5.74	5.78	5.84	5.93	6.01	6.09	6.16	6.23	6.28	6.36	6.41
Open Circuit Voltage (Voc)	33.2	33.5	33.7	33.8	34.0	34.1	34.3	34.3	34.3	34.4	34.5
Short Circuit Current (Isc)	6.22	6.26	6.30	6.40	6.48	6.57	6.65	6.72	6.79	6.87	6.94

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

TEMPERATURE CHARACTERISTICS

TYPE	LDK-D-20 Series (s)
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	12 A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +60°C

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

MECHANICAL CHARACTERISTICS

TYPE	LDK-D-20 Series (s)
Solar Cells	(6x10) monocrystalline silicon solar cells 156 x 156 mm
Front Cover	3.2 mm thick, Tempered glass / AR coating glass
Back Cover	TPT (Tedlar-PET-Tedlar) / BBF
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Diodes	6 Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 1000 mm / Section: 4.0 mm ²
Dimension	1630 x 976 x 40 mm / 64.2 x 38.4x 1.6 inches (new dimensions)
Weight	20 kg / 44.1 lbs
Max. Load	Wind Load: 2400Pa / Snow Load: 5400 Pa

PACKING CONFIGURATION

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

POLYCRYSTALLINE MODULES



160P-165P-170P-175P-180P-185P-190P-195P-200P-24 (S) NEW DIMENSIONS



WHY LDK SOLAR MODULES

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

WARRANTIES

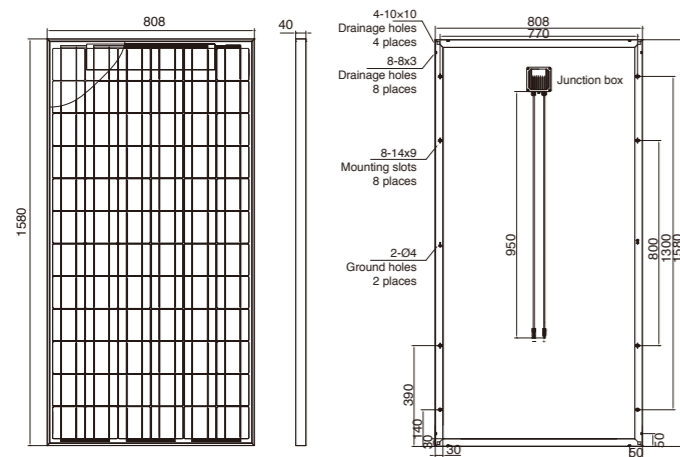
- 5 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power
- 25 years for 80% of warranted minimum power

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- ULC/ORD-C1703-01 second edition 2001/01/01
- UL and Canadian standard for safety flat-plate
- ISO9001:2008 Quality Management System
- CEC Listed: modules are eligible for California rebates
- PV Cycle: voluntary module take back and recycling program

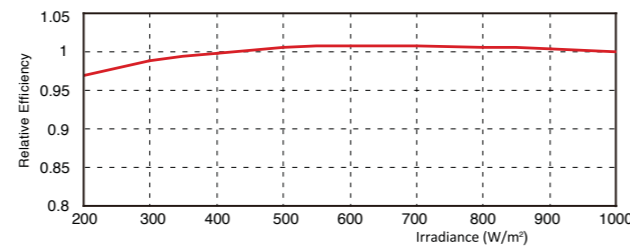


DIMENSIONS



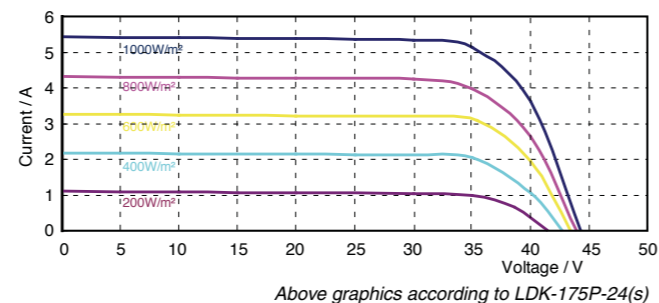
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PERFORMANCE AT LOW IRRADIANCE



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%

IV CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-175P-24(s)

ELECTRIC CHARACTERISTICS (STC*)

TYPE	160P-24(s)	165P-24(s)	170P-24(s)	175P-24(s)	180P-24(s)	185P-24(s)	190P-24(s)	195P-24(s)	200P-24(s)
Nominal Output (Pmax) [W]	160	165	170	175	180	185	190	195	200
Voltage at Pmax (Vmp) [V]	35.1	35.4	35.9	36.1	36.4	36.8	37.2	37.5	37.8
Current at Pmax (Imp) [A]	4.60	4.68	4.76	4.87	4.96	5.02	5.1	5.2	5.3
Open Circuit Voltage (Voc) [V]	43.2	43.6	44.0	44.3	44.6	44.9	45.1	45.3	45.5
Short Circuit Current (Isc)	4.95	5.04	5.13	5.21	5.28	5.51	5.6	5.69	5.78
The power tolerance is +/- 3% referred to the Nominal Output									
Maximum System Voltage	IEC: 1000V / UL: 600 V								
Cell Efficiency	14.66	15.12	15.58	16.04	16.49	16.95	17.41	17.87	18.33
Module Efficiency	12.53	12.92	13.32	13.71	14.10	14.49	14.88	15.27	15.67

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	160P-24(s)	165P-24(s)	170P-24(s)	175P-24(s)	180P-24(s)	185P-24(s)	190P-24(s)	195P-24(s)	200P-24(s)
Nominal Output (Pmax)	116	120	123	127	130	134	138	141	145
Voltage at Pmax (Vmp)	31.7	32.3	32.6	33.1	33.6	33.6	34.1	34.6	35
Current at Pmax (Imp)	3.66	3.71	3.77	3.83	3.87	3.99	4.05	4.1	4.16
Open Circuit Voltage (Voc)	39.8	40.1	40.5	40.8	41.1	41.3	41.5	41.7	41.9
Short Circuit Current (Isc)	4.01	4.08	4.15	4.22	4.27	4.46	4.53	4.6	4.67

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

TEMPERATURE CHARACTERISTICS

TYPE	LDK-P-24 Series (s)
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	10 A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +60°C

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

MECHANICAL CHARACTERISTICS

TYPE	LDK-P-24 Series (s)
Solar Cells	72 (6x12) polycrystalline silicon solar cells 125 x 125 mm
Front Cover	3.2 mm thick, Tempered glass / AR coating glass
Back Cover	TPT (Tedlar-PET-Tedlar) / BBF
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Diodes	6 Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 950 mm / Section: 4.0 mm ²
Dimension	1580 x 808 x 40 mm / 62.4 x 31.8 x 1.6 inches (new dimensions)
Weight	15.6 kg / 34.4 lbs
Max. Load	Wind Load: 2400Pa / Snow Load: 5400 Pa

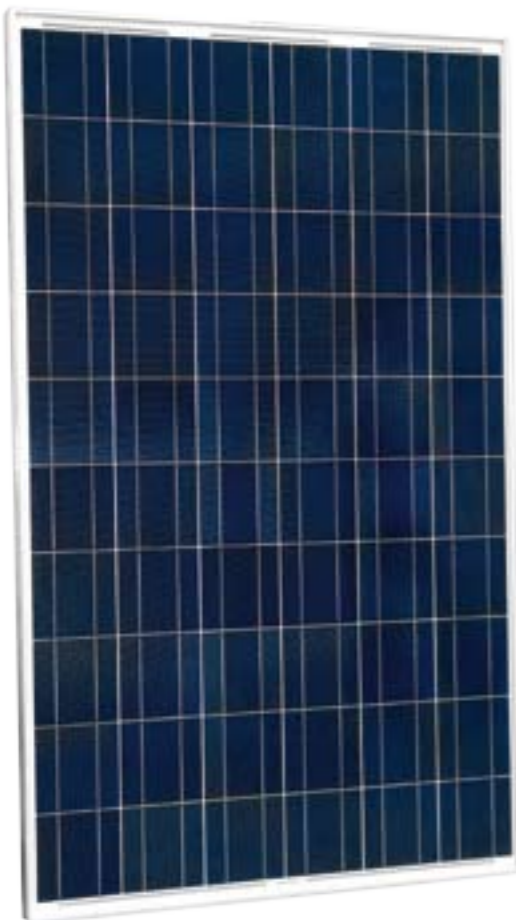
PACKING CONFIGURATION

TYPE	LDK-P-24 Series (s)
Packing Configuration	25 pcs./box
Quantity/Pallet	50 pcs./pallet
Loading Capacity	700 pcs. / 40 ft (H)

POLYCRYSTALLINE MODULES



200P-205P-210P-215P-220P-225P-230P-235P-240P-245P-250P-20 (S) NEW DIMENSIONS



WHY LDK SOLAR MODULES

- Industry leading module power output warranty
- International quality, safety and performance certifications
- Modules manufactured at ISO 9001 certified factories
- High-reliability with guaranteed 0/+5W peak power classification
- Module performance reinsurance policy (Munich RE)

WARRANTIES

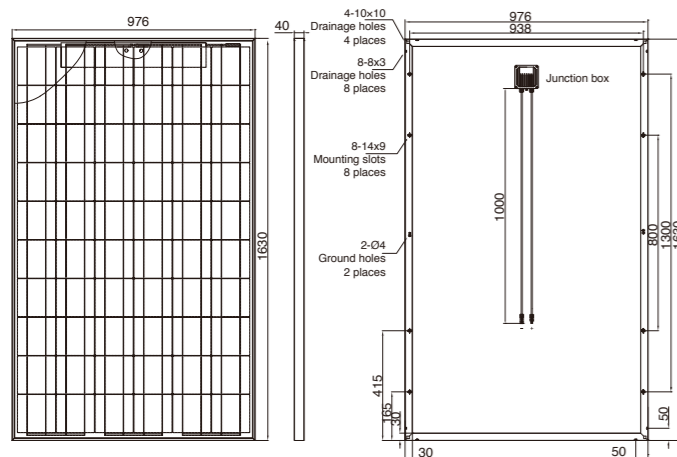
- 5 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power
- 25 years for 80% of warranted minimum power

CERTIFICATES

- IEC: IEC 61215, IEC 61730 (1&2), conformity to CE
- UL1703 2002/03/15 Ed:3 Rev: 2004/06/30
- ULC/ORD-C1703-01 second edition 2001/01/01
- UL and Canadian standard for safety flat-plate
- ISO9001:2008 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

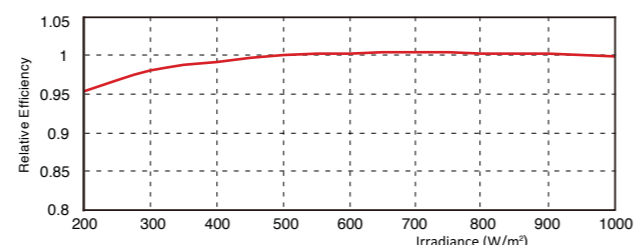


DIMENSIONS



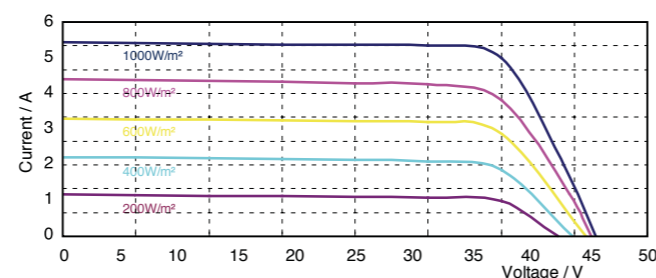
Tolerance of length and width dimensions is ± 2 mm

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%

IV CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-220P-20(s)

ELECTRIC CHARACTERISTICS (STC*)

TYPE	200P-20(s)	205P-20(s)	210P-20(s)	215P-20(s)	220P-20(s)	225P-20(s)	230P-20(s)	235P-20(s)	240P-20(s)	245P-20(s)	250P-20(s)
tNominal Output (Pmax) [W]	200	205	210	215	220	225	230	235	240	245	250
Voltage at Pmax (Vmp) [V]	29.6	29.6	29.7	29.8	29.8	29.9	29.9	30.0	30.0	30.1	30.2
Current at Pmax (Imp) [A]	6.75	6.93	7.07	7.23	7.40	7.53	7.68	7.84	7.98	8.14	8.28
Open Circuit Voltage (Voc) [V]	36.0	36.0	36.1	36.3	36.5	36.7	36.8	36.8	36.9	37.2	37.5
Short Circuit Current (Isc)	7.82	7.82	7.83	7.98	8.14	8.24	8.34	8.35	8.35	8.48	8.59
The power tolerance is +/- 3% referred to the Nominal Output											
Maximum System Voltage	IEC: 1000V / UL: 600 V										
Cell Efficiency	14.12	14.47	14.83	15.18	15.53	15.89	16.24	16.59	16.94	17.29	17.64
Module Efficiency	12.57	12.89	13.20	13.51	13.83	14.14	14.46	14.77	15.09	15.40	15.71

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	200P-20(s)	205P-20(s)	210P-20(s)	215P-20(s)	220P-20(s)	225P-20(s)	230P-20(s)	235P-20(s)	240P-20(s)	245P-20(s)	250P-20(s)
Nominal Output (Pmax)	145	149	152	156	159	163	167	170	174	178	181
Voltage at Pmax (Vmp)	25.1	25.7	26.2	26.3	26.4	26.7	27.1	27.4	28.0	28.1	28.2
Current at Pmax (Imp)	5.80	5.80	5.81	5.93	6.04	6.12	6.19	6.22	6.23	6.33	6.42
Open Circuit Voltage (Voc)	33.1	33.1	33.2	33.4	33.6	33.8	33.9	33.9	34.0	34.3	34.5
Short Circuit Current (Isc)	6.33	6.33	6.34	6.46	6.59	6.67	6.75	6.76	6.76	6.87	6.95

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

TEMPERATURE CHARACTERISTICS

TYPE	LDK-P-20 Series (s)
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	12 A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +60°C

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

MECHANICAL CHARACTERISTICS

TYPE	LDK-P-20 Series (s)
Solar Cells	60 (6x10) polycrystalline silicon solar cells 156 x 156 mm
Front Cover	3.2 mm thick, Tempered glass / AR coating glass
Back Cover	TPT (Tedlar-PET-Tedlar) / BBF
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Diodes	6 Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 1000 mm / Section: 4.0 mm²
Dimension	1630 x 976 x 40 mm / 64.2 x 38.4x 1.6 inches (new dimensions)
Weight	20 kg / 44.1 lbs
Max. Load	Wind Load: 2400Pa / Snow Load: 5400 Pa

PACKING CONFIGURATION

TYPE	LDK-P-20 Series (s)
Packing Configuration	25 pcs./box
Quantity/Pallet	50 pcs./pallet
Loading Capacity	700 pcs. / 40 ft (H)

POLYCRYSTALLINE MODULES



240P-245P-250P-260P-265P-270P-275P-280P-285P-290P-24 (S) NEW DIMENSIONS



WHY LDK SOLAR MODULES

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

WARRANTIES

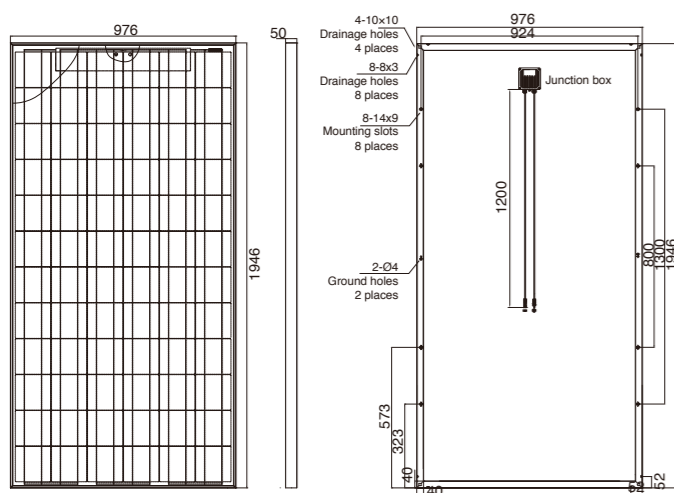
- 5 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power
- 25 years for 80% of warranted minimum power

CERTIFICATES

- IEC: IEC 61215, IEC 61730 (1&2), conformity to CE
- UL1703 2002/03/15 Ed:3 Rev: 2004/06/30
- ULC/ORD-C1703-01 second edition 2001/01/01
- UL and Canadian standard for safety flat-plate
- ISO9001:2008 Quality Management System
- CEC Listed: modules are eligible for California rebates
- PV Cycle: voluntary module take back and recycling program

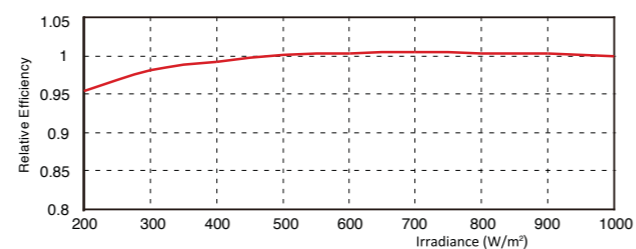


DIMENSIONS



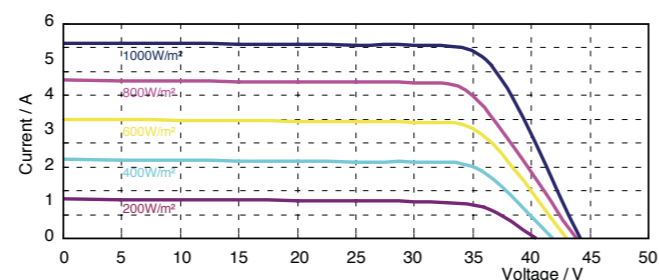
Tolerance of length and width dimensions is ± 2 mm

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%

IV CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-260P-24(s)

ELECTRIC CHARACTERISTICS (STC*)

TYPE	240P-24(s)	245P-24(s)	250P-24(s)	255P-24(s)	260P-24(s)	265P-24(s)	270P-24(s)	275P-24(s)	280P-24(s)	285P-24(s)	290P-24(s)
Nominal Output (Pmax) [W]	240	245	250	255	260	265	270	275	280	285	290
Voltage at Pmax (Vmp) [V]	35.8	35.8	35.9	35.9	36.0	36.1	36.2	36.2	36.3	36.4	36.5
Current at Pmax (Imp) [A]	6.70	6.85	6.96	7.11	7.23	7.35	7.47	7.60	7.72	7.83	7.95
Open Circuit Voltage (Voc) [V]	44.1	44.1	44.1	44.1	44.2	44.2	44.2	44.3	44.3	44.4	44.4
Short Circuit Current (Isc)	8.01	8.02	8.02	80.4	80.6	8.14	8.21	8.28	8.36	8.44	8.52
The power tolerance is +/- 3% referred to the Nominal Output											
Maximum System Voltage	IEC: 1000V / UL: 600 V										
Cell Efficiency	14.27	14.57	14.86	15.16	15.46	15.75	16.05	16.35	16.66	16.96	17.27
Module Efficiency	12.64	12.90	13.16	13.43	13.69	13.95	14.22	14.48	14.74	15.01	15.27

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	240P-24(s)	245P-24(s)	250P-24(s)	255P-24(s)	260P-24(s)	265P-24(s)	270P-24(s)	275P-24(s)	280P-24(s)	285P-24(s)	290P-24(s)
Nominal Output (Pmax)	174	178	181	185	188	192	196	199	203	207	210
Voltage at Pmax (Vmp)	29.9	30.3	30.8	31.0	31.4	31.6	31.8	32.1	32.4	32.8	33
Current at Pmax (Imp)	5.82	5.86	5.89	5.96	6.01	6.07	6.15	6.21	6.27	6.31	6.39
Open Circuit Voltage (Voc)	40.6	40.6	40.6	40.6	40.7	40.7	40.7	40.8	40.8	40.9	40.9
Short Circuit Current (Isc)	6.48	6.49	6.49	6.51	6.53	6.59	6.65	6.70	6.77	6.81	6.91

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

TEMPERATURE CHARACTERISTICS

TYPE	LDK-P-24 Series (s)
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	12 A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +60°C

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

MECHANICAL CHARACTERISTICS

TYPE	LDK-P-24 Series (s)
Solar Cells	72 (6x12) polycrystalline silicon solar cells 156 x 156 mm
Front Cover	4 mm thick, Tempered glass / AR coating glass
Back Cover	TPT (Tedlar-PET-Tedlar) / BBF
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Diodes	6 Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 1200 mm / Section: 4.0 mm ²
Dimension	1946 x 976 x 50 mm / 77.0 x 38.4x 2.0 inches (new dimensions)
Weight	27.3 kg / 67.2 lbs
Max. Load	Wind Load: 2400Pa / Snow Load: 5400 Pa

PACKING CONFIGURATION

TYPE	LDK-P-24 Series (s)
Packing Configuration	20 pcs./box
Quantity/Pallet	40 pcs./pallet
Loading Capacity	440 pcs. / 40 ft (H)

www.ldksolar.com



FKD-design

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