



WHY LDK SOLAR MODULES

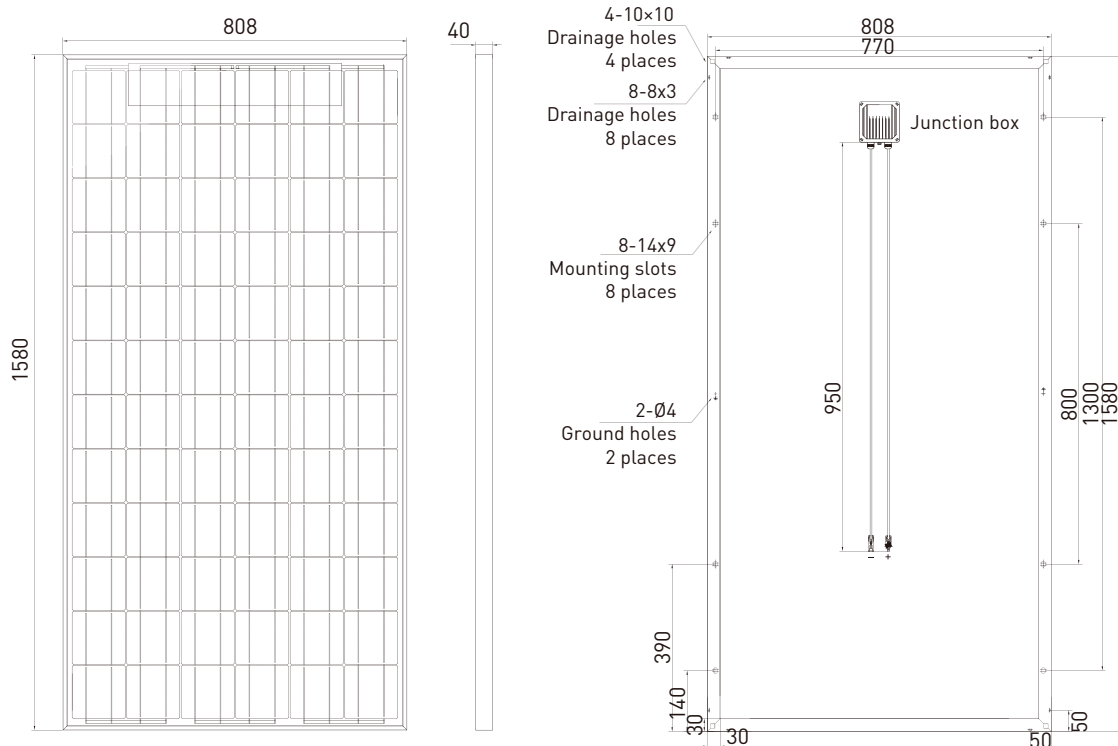
- Industry leading module power output warranty
- International quality, safety and performance certifications
- Modules manufactured in ISO 9001 certified factories
- High-reliability with guaranteed 0/+5 Wp peak power classification

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



POLYCRYSTALLINE MODULES

ELECTRICAL CHARACTERISTICS (STC*)

TYPE	170P-24(s)	175P-24(s)	180P-24(s)	185P-24(s)	190P-24(s)	195P-24(s)	200P-24(s)
Nominal Output (Pmax) [Wp]	170	175	180	185	190	195	200
Voltage at Pmax (Vmp) [V]	34.8	35.3	35.8	36.3	36.8	37.3	37.8
Current at Pmax (Imp) [A]	4.90	4.97	5.04	5.11	5.17	5.24	5.30
Open Circuit Voltage (Voc) [V]	43.6	44.1	44.5	44.9	45.4	45.8	46.2
Short Circuit Current (Isc) [A]	5.36	5.41	5.45	5.50	5.54	5.58	5.62
Power Classification Range [Wp]	-0/+4.99	-0/+4.99	-0/+4.99	-0/+4.99	-0/+4.99	-0/+4.99	-0/+4.99
Tolerance on Nominal Output [%]	+/-3	+/-3	+/-3	+/-3	+/-3	+/-3	+/-3
Maximum System Voltage	IEC EN: 1000 V / UL: 600 V						
Cell Efficiency [%]	15.25	15.70	16.15	16.60	17.04	17.49	17.94
Module Efficiency [%]	13.32	13.71	14.10	14.49	14.88	15.27	15.67

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	170P-24(s)	175P-24(s)	180P-24(s)	185P-24(s)	190P-24(s)	195P-24(s)	200P-24(s)
Nominal Output (Pmax) [Wp]	124	127	131	135	138	142	146
Voltage at Pmax (Vmp) [V]	31.6	32.0	32.5	32.9	33.4	33.9	34.3
Current at Pmax (Imp) [A]	3.92	3.98	4.03	4.09	4.14	4.19	4.25
Open Circuit Voltage (Voc) [V]	40.3	40.8	41.2	41.5	42.0	42.4	42.8
Short Circuit Current (Isc) [A]	4.34	4.38	4.41	4.45	4.49	4.52	4.55

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

TEMPERATURE CHARACTERISTICS

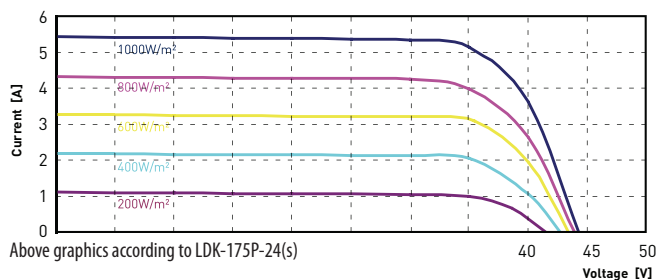
TYPE	LDK-P-24(s) Series
NOCT**	45 +/- 2 °C
Temperature Coefficient of Pmax	-0.45 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.06 %/°C
Maximum Series Fuse Rating	20 A
Operating Temperature	from -40 to +85 °C
Storage Temperature	from -40 to +60 °C

NOCT** (Nominal Operating Cell Temperature): irradiance 800 W/m², Air 20 °C, wind speed 1 m/s

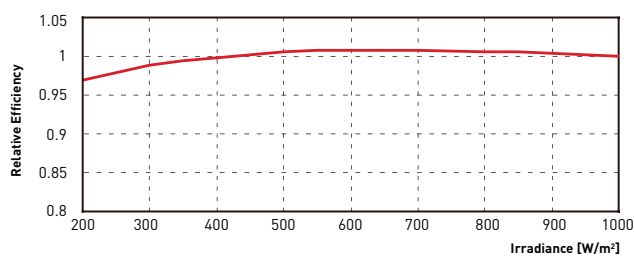
MECHANICAL CHARACTERISTICS

TYPE	LDK-P-24(s) Series
Solar Cells	72 (6 x 12) polycrystalline silicon solar cells 125 x 125 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: 950 mm / Section: 4.0 mm ²
Dimensions	1580 x 808 x 40 mm / 62.20 x 31.81 x 1.57 in
Weight	15.6 kg / 34.4 lbs
Max. Load	Wind Load: 2400 Pa / Snow Load: 5400 Pa

I-V CURVE AT DIFFERENT IRRADIANCE LEVELS



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-P-24(s) Series
Packing Configuration	25 pcs. / box
Quantity / Pallet	50 pcs. / pallet
Loading Capacity	700 pcs. / 40 ft. (High Cube Container)