

240P-245P-250P-255P-260P-265P- 270P-275P-280P-285P-290P-24



WHY LDK SOLAR MODULES

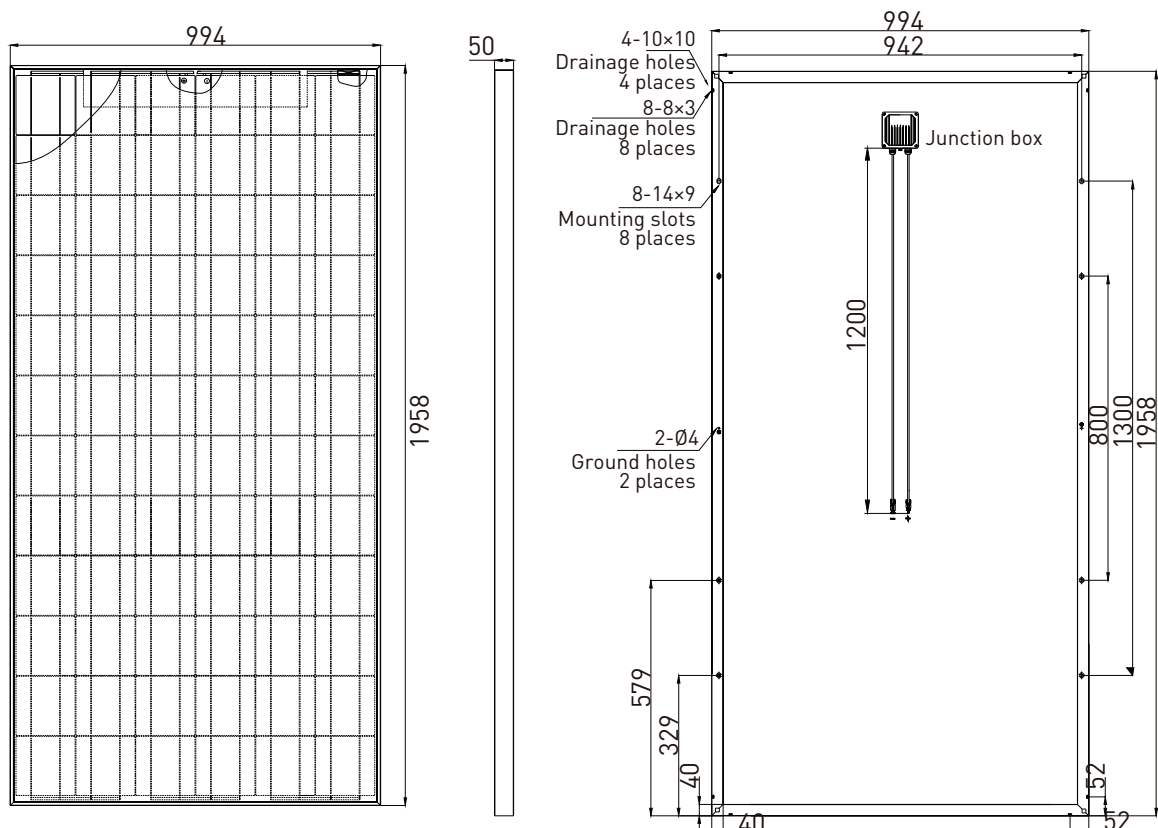
- Industry leading module power output warranty
- International quality, safety and performance certifications
- Modules manufactured in ISO 9001 certified factories
- High-reliability with guaranteed 0/+5 Wp peak power classification

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	240P-24	245P-24	250P-24	255P-24	260P-24	265P-24	270P-24	275P-24	280P-24	285P-24	290P-24
Nominal Output (Pmax) [Wp]	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) [A]	8.01	8.02	8.02	8.04	8.06	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: 1000 V / 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 [%]	12.33	12.59	12.84	13.10	13.36	13.62	13.87	14.13	14.39	14.65	14.91

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

ELECTRICAL PERFORMANCE AT NOCT

TYPE	240P-24	245P-24	250P-24	255P-24	260P-24	265P-24	270P-24	275P-24	280P-24	285P-24	290P-24
Nominal Output (Pmax) [W]	174	178	181	185	188	192	196	199	203	207	210
Voltage at Pmax (Vmp) [V]	29.9	30.3	30.8	31.0	31.4	31.6	31.8	32.1	32.4	32.8	33.0
Current at Pmax (Imp) [A]	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) [V]	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) [A]	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

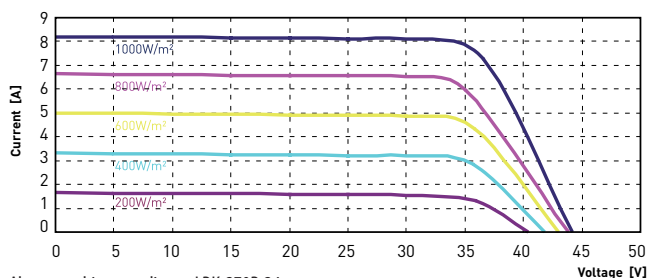
TYPE	LDK-P-24 Series
NOCT**	45 +/- 2 °C
Temperature Coefficient of Pmax	-0.47 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.06 %/°C
Maximum Series Fuse Rating	20 A
Operating Temperature	from -40 to +85 °C
Storage Temperature	from -40 to +60 °C

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

MECHANICAL CHARACTERISTICS

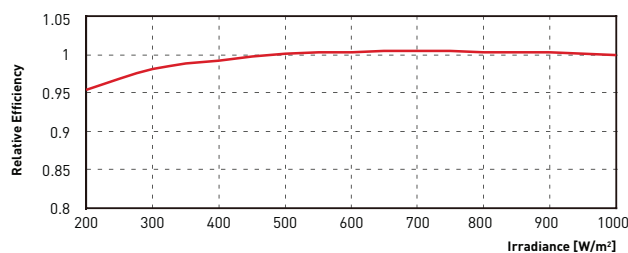
TYPE	LDK-P-24 Series
Solar Cells	72 (6x12) polycrystalline silicon solar cells 156 x 156 mm
Front Cover	4 mm thick, tempered glass / AR coating glass
Back Cover	TPT (Tedlar-PET-Tedlar) / BBF
Encapsulant	EVA (ethylene vinyl acetate)
Frame	Double-layer anodized aluminium alloy
Diodes	6 Bypass diodes serviceable
Junction Box	IP65 rated
Connectors	MC4 or compatible connectors
Cables	Length: 1200 mm / Section: 4.0 mm ²
Dimensions	1958 x 994 x 50 mm / 77.1 x 39.1 x 2.0 in
Weight	30.5 kg / 67.2 lbs
Max. Load	Wind Load: 2400 Pa / Snow Load: 5400 Pa

I-V CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphics according to LDK-270P-24

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 Series
Packing Configuration	20 pcs. / box
Quantity / Pallet	40 pcs. / pallet
Loading Capacity	440 pcs. / 40 ft (High Cube Container)

LDK Solar reserves the right to make specifications changes without any prior notice. This data sheet complies with the EN 50380 requirements. V4 - September 2011 - © LDK Solar Limited. All rights reserved. E.&O.E.