

# LDK295-275W

## 60-cell Monocrystalline PV Module



### QUALITY & EFFICIENCY BENEFITS



**Excellent performance under low irradiance**  
High efficiency under weak light conditions due to advanced cell technology



**Anti-PID Performance**  
Selection of materials and excellent workmanship minimize the impact by 85%RH 85°C.



**High reliability**  
0/+5W Positive power tolerance for reliable power output

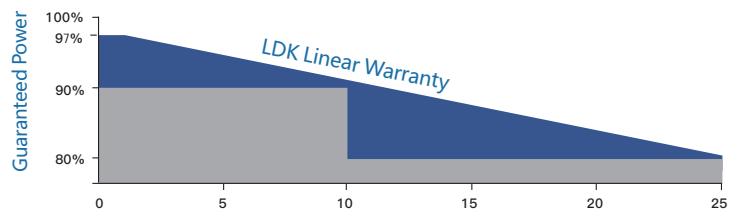


**Highly resistant to Extreme environment**  
Adapt to the environment of salt mist resistance and ammonia resistance for seaside and farm



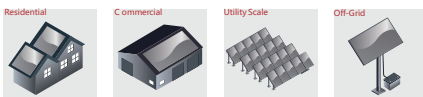
**Certified to withstand challenging environmental conditions**  
2400 Pa wind load  
5400 Pa snow load

### 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



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## 60-cell Multicrystalline PV Module



### ELECTRIC CHARACTERISTICS (STC)

Power Class	295	290	285	280	275
Nominal Power(Pmax) [W]	295	290	285	280	275
Minimum Power Output [W]	295	290	285	280	275
Voltage at Pmax(VMP) [V]	33.15	32.73	32.31	31.89	31.46
Current at Pmax(IMP) [A]	8.90	8.86	8.82	8.78	8.74
Open Circuit Voltage(Voc) [V]	39.80	39.28	39.03	38.91	38.72
Short Circuit Current(Isc) [A]	9.43	9.39	9.35	9.31	9.26
Tolerance on Nominal Power [W]	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Maximum System Voltage [V]	IEC EN/UL:1000V				
Cell Efficiency [%]	20.60	20.23	19.88	19.53	19.18
Module Efficiency [%]	18.03	17.72	17.41	17.11	16.80

STC(Standard Test Conditions):Irradiance 1000w/m<sup>2</sup>;Cell temperature25°C, Air Mass AM1.5  
Best in Class AAA solar simulator(IEC60904-9)is used ,With power measurement uncertainty within±3%

### ELECTRICAL CHARACTERISTICS AT NOCT

Power Class	295	290	285	280	275
Output Power(Pmax) [W]	214	210	206	203	199
Voltage at Pmax(VMP) [V]	29.44	29.00	28.57	28.27	27.87
Current at Pmax(IMP) [A]	7.27	7.24	7.21	7.18	7.14
Open Circuit Voltage(Voc) [V]	36.85	36.37	36.14	36.03	35.85
Short Circuit Current(Isc) [A]	7.63	7.60	7.57	7.54	7.50

NOCT(Nominal Operating Cell Temperature):Irradiance 800w/m<sup>2</sup>, Ambient temperature20°C, Wind speed 1m/s  
Best in ClassAAA solar simulator(IEC60904-9)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	15A
Operating Temperature	From -40 to +85°C
Storage Temperature	From -40 to +60°C

### MECHANICAL CHARACTERISTICS

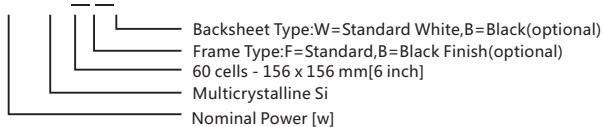
Solar Cell	60(6×10)monocrystalline sillion 156×156mm[6 inch]solar cells
Front Glass	3.2mm[0.13 in]high transparency AR-coated tempered glass
Back Cover	white Backsheet
Encapsulant	EVA(Ethylene-Vinyl Acetate)
Frame	Double-layer anodized aluminium alloy ,silver
Junction Box	IP67 rated, with serviceable bypass diodes
Cables	UV resistant solar cable.1000mm[39.37 in]. Section 4.0mm <sup>2</sup> [12AWG]
Connectors	MC4 compatible connectors
Dimensions	1650×992×40mm[64.96×39.05×1.57 in]
Weight	19kg[41.8lbs]
Max.Load	Wind Load:2400 Pa/ Snow Load:5400 Pa

### PACKING CONFIGURATION

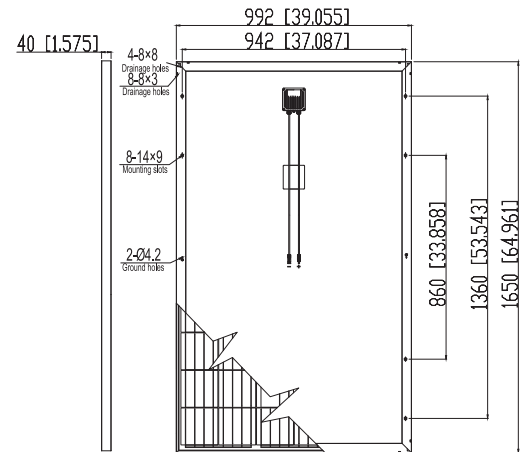
Quantity / Pallet	27 pcs./pallet
Pallet / Container	28 pallets/container
Loading Capacity	756 pcs./40ft High Cube Container

### MODULE TYPE CODING RULE

#### LDK XXX PA

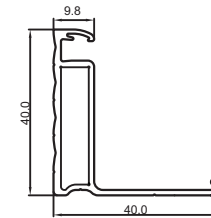


### DIMENSIONS

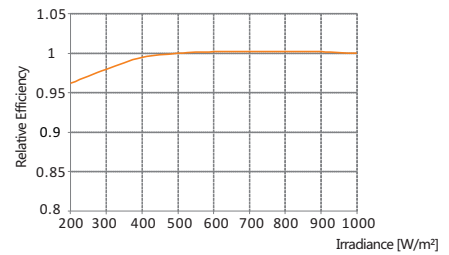


Module dimensions are expressed in mm [in] with tolerance ±2 mm [±0.079 in]

### NEW FRAME CROSS SECTION

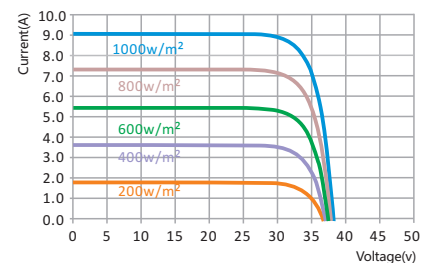


### PERFORMANCE AT LOW IRRADIANCE



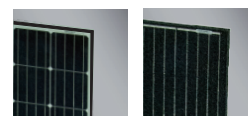
The typical relative change in module efficiency at an irradiance of 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> (both at 25°C and spectrum AM 1.5) is less than 3.5%

### I-V CURVE AT DIFFERENT IRRADIANCE LEVELS



Above graphs are referred to 280W type

### PRODUCT OPTIONS



Black frame Full black