LDK Solar Module Mono-S 435~460W

120-cell Monocrystalline Half-cell Module

LIGHT OUR FUTURE

LDK-48R-DEGH

435~460W

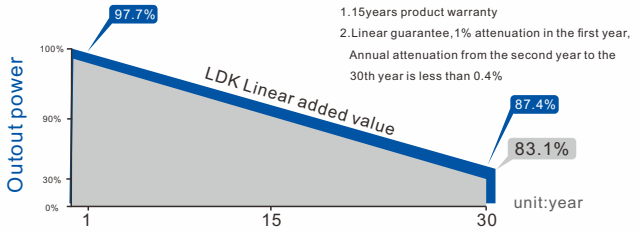
Excellent technical advantages and system design scheme to achieve high reliability,power generation effective gain and EPC cost reduction.Products can match different installation conditions,taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

N-TYPE 210R

- Bifacial technology enables additional energy harvesting from rear side (up to 30%)
- 30-year lifespan delivers 10-30% more power compared with conventional P-type modules
- The natural lack of LID in the N-type solar cell can increase power generation
- Excellent low irradiance performance
- Better light trapping and current collection to improve module power output and reliability
- Industry-leading,lowest thermal coefficient
- Optimized electrical design and lower operating current for reduced hot spot loss and better temperature
- Certified to withstand 2400 Pa of wind load and 5400 Pa of sonw load
- 100% triple EL test,which greatly reduces the hidden cracks rate

15 YEARS Guarantee on product material and wordmanship

30 YEARS Linear power output warranty



Industry leading linear warranty

LDK Output Linear Warranty

Standard output linearity guarantee

15 years product warranty

30 years linear power output warranty

QUALITY & ENVIRONMENTAL CERTIFICATES

ISO 9001 Quality srtandards • ISO 14001 Environmental • OHSAS 18001Occupational Health & Safety Stadards

www.ldkenergy.com

LDK-48R-DEGH

N-type Half-Cut Cell | Bifical Module | Double Glass

LIGHT OUR FUTURE

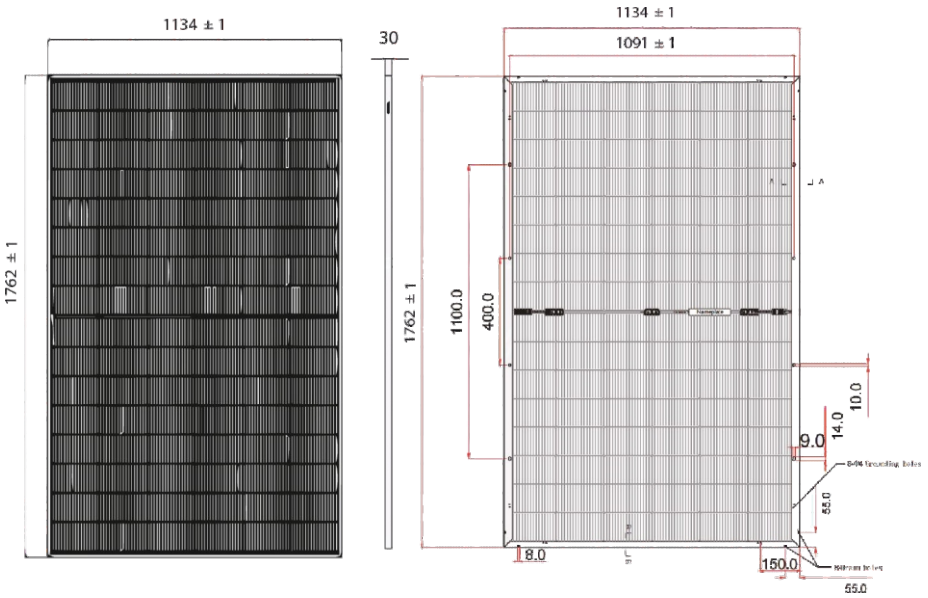
ELECTRICAL PARAMETERS

* Measurement tolerance: Pmax:±3%, Voc:±3%,Isc:±5%

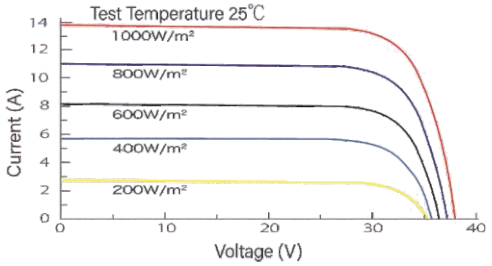
Module Type	LDK-435-48R-DEGH		LDK-440-48R-DEGH		LDK-445-48R-DEGH		LDK-450-48R-DEGH		LDK-455-48R-DEGH		LDK-460-48R-DEGH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power-Pmax(W)	435	328	440	332	445	335	450	339	455	343	460	347
Maximum Power Voltage-Vmpp(V)	27.59	25.87	27.79	26.07	27.99	26.27	28.19	26.47	28.39	26.67	28.59	26.87
maximum Power Current-Impp(A)	15.77	12.68	15.84	12.73	15.90	12.76	15.97	12.81	16.03	12.86	16.09	12.90
Open Circuit Voltage-Voc(V)	33.40	31.68	33.60	31.88	33.80	32.08	34.00	32.28	34.20	32.48	34.40	32.68
Short Circuit Current-Isc(A)	16.77	13.41	16.79	13.42	16.81	13.45	16.83	14.47	16.85	13.49	16.87	13.51
Module Efficiency(%)	21.77		22.02		22.27		22.52		22.77		23.02	

STC:irradiance 1,000 W/m2; Spectra at AM 1.5; module temperature 25 .Power output tolerance:0~+5W.Measuring tolerance of power±3%
NMOT:irradiance 800 W/m2; Spectra at AM 1.5;Cell temperature 25 ;Ambient temperature 20 .Wind speed 1m/s

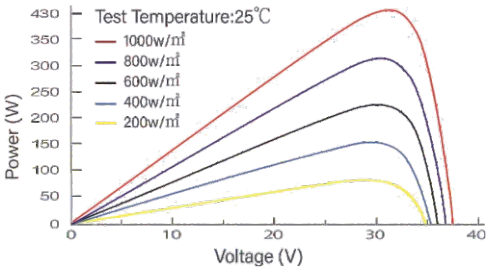
DIMENSIONS OF PV MODULE



I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



MECHANICAL DATA

Solar Cells(mm)	182x105 N-type TOPCon
Cell Orientation	96Cells(6x16)
Module Dimensions(L*W*H)	1762x1134x30mm
Weight(Kg)	24.5kg
Front Glass	2.0mm,Anti-Reflection Coating
Back Glass	2.0mm,Heat Strengthened Glass
Frame	Anodized aluminum alloy
J-Box	IP68, 3 bypass diodes
Cables	300mm/-300mm/customized
Cfonnector	4mm²,MC4 compatible

TEMPERATURE RATINGS

NMOT	45℃(±2℃)
Temperature Coefficient of Pmax	-0.34%/℃
Temperature Coefficient of Voc	-0.25%/℃
Tempetature Coefficient of Isc	+0.04%/℃

MAXIMUN RATING

Operational Temperature(℃)	-40℃~+85℃
Maximum System Voltage(VDC)	1500
Max Series Fuse Rating(A)	25
Mechanical Load Front(Pa)	5,400
Mechanical Load Back(Pa)	2,400

PACKING CONFIGURATION

Module per box: 36 Pieces

MODULE CONTAINER

936 Pieces