



430W/435W/440W/445W/450W RE54-18X(N) Full Black

High Efficiency Lower LID and N-type cell with Half-cut Technology
Cell Size: 182×91.875mm Monocrystalline



10-30% Additional Power Generation

10-30% additional power generation comparing with conventional P-type module



Lower LID (Light Induced Degradation)

N-type modules with technology offer lower LID/LeTID degradation and better low light performance



Lower LCOE

Higher power output and lower BOS cost



Better Weak Illumination Response

Higher power output even under low-light environment



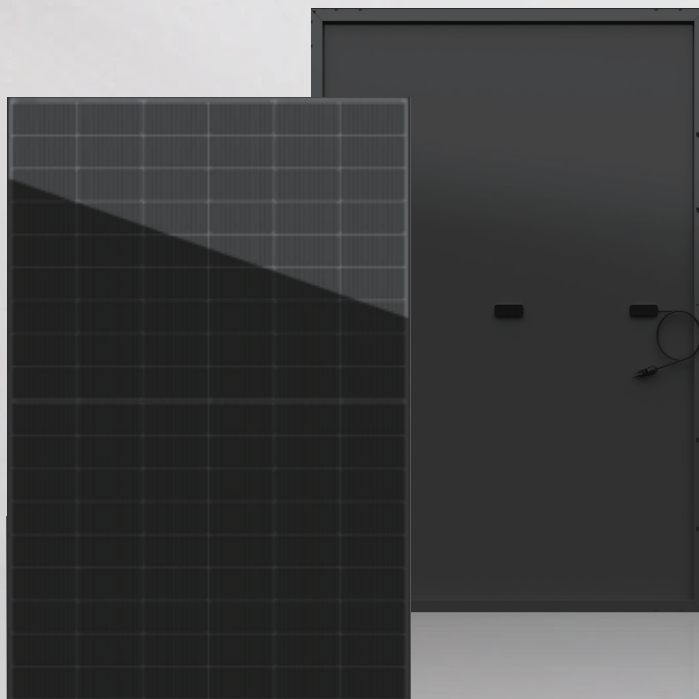
Better Temperature Coefficient

Higher power generation under normal working conditions



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)



Module Efficiency	No. of Cells	Weight	Dimensions
23.0%	108(6x18)	21.0±0.5kg	1722x1134x30mm

Rivulet Energy Corp.
www.rivuletsolar.com

Electrical Characteristics

Module	RE54-18X(N) Full Black				
Maximum Power at STC (Pmax)	430W	435W	440W	445W	450W
Open - Circuit Voltage (Voc)	38.30V	38.40V	38.60V	38.70V	38.90V
Short - Circuit Current (Isc)	14.23A	14.31A	14.39A	14.47A	14.55A
Optimum Operating Voltage (Vmp)	31.90V	32.00V	32.20V	32.30V	32.50V
Optimum Operating Current (Imp)	13.50A	13.60A	13.68A	13.78A	13.86A
Module Efficiency	22.0%	22.3%	22.5%	22.8%	23.0%
Power Tolerance	0 ~+3%				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85 °C				

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Optional black frame or white frame module according to customer requirements.

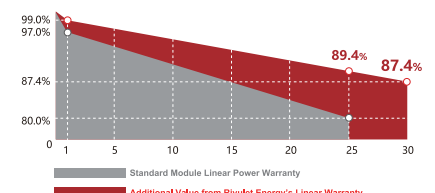
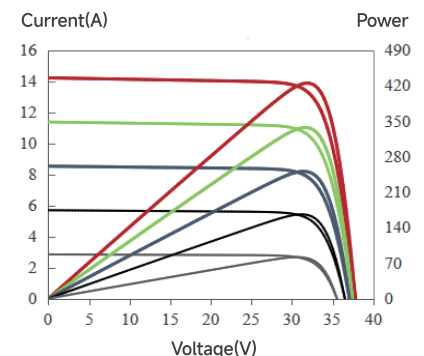
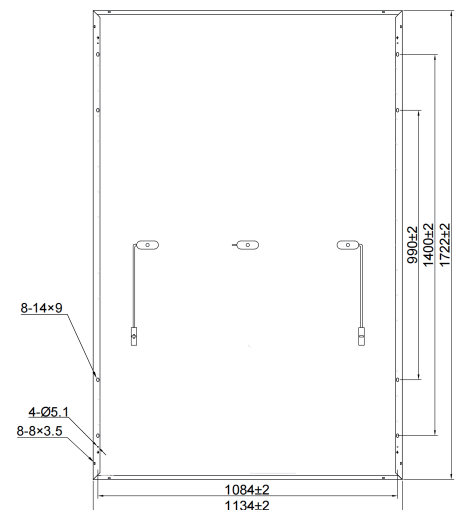
NMOT

Module	RE54-18X(N) Full Black				
Maximum Power	327W	331W	335W	339W	343W
Open - Circuit Voltage (Voc)	36.80V	36.90V	37.10V	37.20V	37.40V
Short - Circuit Current (Isc)	11.47A	11.53A	11.59A	11.65A	11.71A
Optimum Operating Voltage (Vmp)	30.70V	30.90V	31.10V	31.30V	31.50V
Optimum Operating Current (Imp)	10.65A	10.71A	10.77A	10.83A	10.89A
NMOT	45±2°C				

*NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Mechanical Characteristics

Module	RE54-18X(N) Full Black
Solar Cells	Monocrystalline 182x91.875mm
No. of Cells	108(6x18)
Dimensions	1722x1134x30mm
Weight	21.0±0.5kg
Front Glass	High transmission tempered glass; thickness: 3.2mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm² (UL / IEC) length:(+)400mm, (-)200mm / customized length
Fire Type	Type 1
Connectors	MC4-EVO2/MC4 Compatible
Packaging Configuration	36pcs / box, 936pcs / 40'HQ container



Temperature Characteristics

Module	RE54-18X(N) Full Black
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Isc	+0.046%/°C

15-year
product warranty

30-year
power output warranty

Specific information is referred to the product quality guarantee