

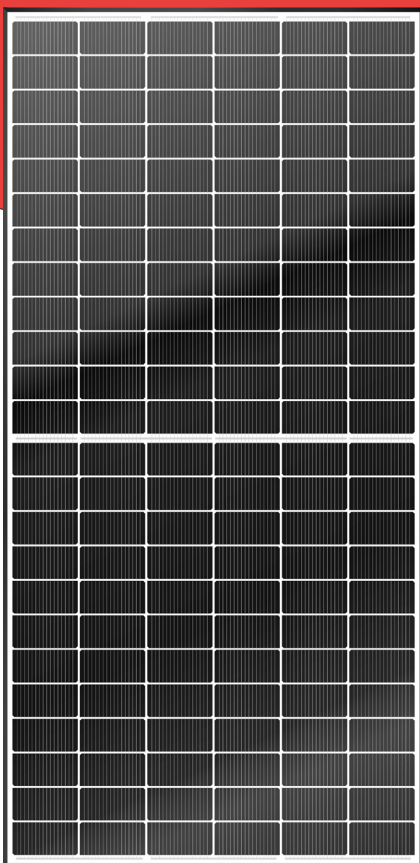
Roxsun

Solar energy

585W

Composite Frame

N-Type High efficiency Bifacial Dual Glass Module



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

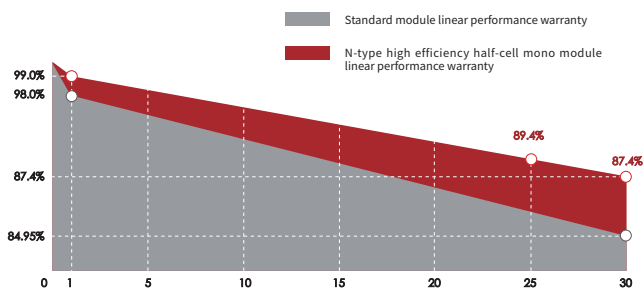


Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load



100% triple EL test, which greatly reduces the hidden cracks rate

LINEAR PERFORMANCE WARRANTY



15 years

Product quality & process guarantee

30 years

Linear power guarantee

0.40 %

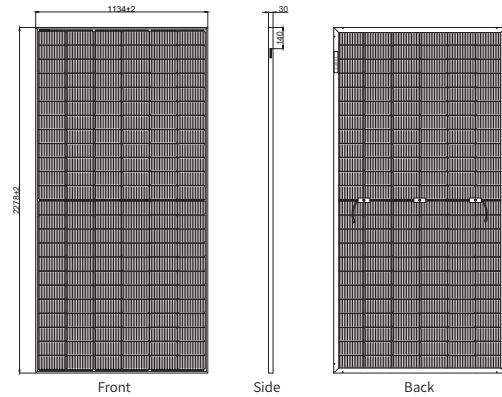
Annual degradation

Model of modules	RX-DG72(585)-NC	
	STC	NMOT
Maximum power — P_{mp} (W)	585	448
Open-circuit voltage — V_{oc} (V)	52.16	49.94
Short-circuit current — I_{sc} (A)	13.85	11.16
Maximum power voltage — V_{mp} (V)	44.22	42.34
Maximum power current — I_{mp} (A)	13.23	10.58
Module efficiency — η_m (%)	22.6	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

Peak power (P_{max}) (W)	648
Open circuit voltage (V_{oc}) (V)	52.16 V
Short circuit current (I_{sc}) (A)	15.35
MPP voltage — V_{mp} (V)	44.22
MPP current — I_{mp} (A)	14.66

MODULE DIMENSIONS (MM)



* The unmarked tolerance is ± 1 mm
Length shown in mm

* For clamp mounting only

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2278 x 1134 x 30 mm
Weight	31.5 $\pm$ 1kg
Cell	144 cells, N-type monocrystalline
Front glass	2.0mm, anti-reflection coating
Back glass	2.0mm, heat strengthened glass
Frame	Black GFRP(Glass Fiber Reinforced Polymer) (Multiple colors available)
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm ²
Wire length	300mm/1200mm/customized length
Connector	MC4 Compatible
Packaging specification	37 pcs/Pallet; 740 pcs/40'HQ

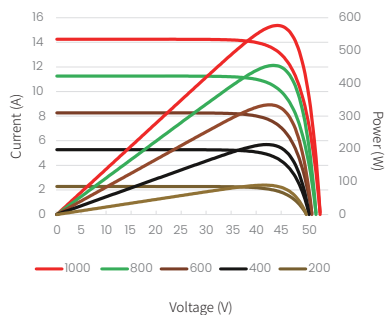
OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa * / 2400 Pa ∞

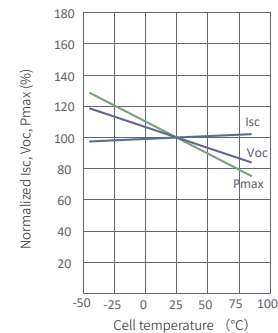
TEMPERATURE PERFORMANCE RATINGS

Temperature coefficient (P_{max})	-0.30 %/°C
Temperature coefficient (V_{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal Module Operating Temperature	43 $\pm$ 2 °C

Current-Voltage & Power-Voltage Curves
(585W)



Temperature Dependence of
 I_{sc} , V_{oc} , P_{max}



* The parameters delineated within this datasheet, both technical and monetary, may exhibit variations contingent upon the region. Roxsun Solar energy provides no warranty as to their absolute accuracy. Owing to our unceasing commitment to innovation, research, development, and product enhancement, Roxsun Solar energy retains the discretion to amend any information encapsulated in this datasheet without any preceding notification. Clients are urged to procure the most recent iteration of this datasheet and incorporate it as an intrinsic component of the legally binding agreement ratified by both parties. The English rendition of this datasheet serves purely as a point of reference. Should discrepancies arise between the English text and versions rendered in other languages, the stipulations of the English version shall take precedence.