



MONO-FACIAL MODULE

RS41-425~445NX-E3



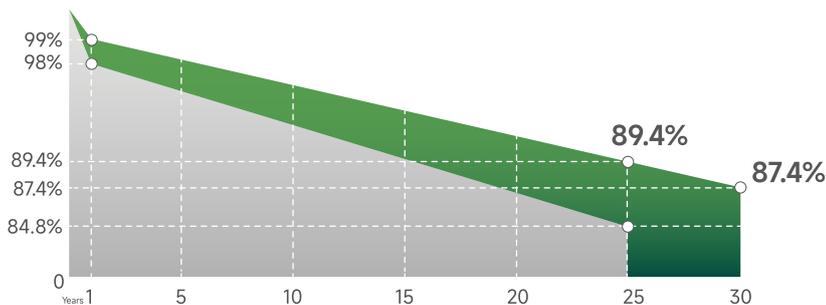
N-Type /Positive power tolerance of 0~+3%/Max module efficiency 22.79%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Non destructive cutting · MBB half-cut
- Excellent power generation performance
 - Excellent IAM and low irradiation performance · Lower temperature coefficient
 - 0.40% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material · Advanced technology · Leading standard
- Ultra-hydrophilic self-cleaning coating techniques
- Enhanced Mechanical Load
 - Mechanical performance up to 5400pa positive load and 2400pa negative load



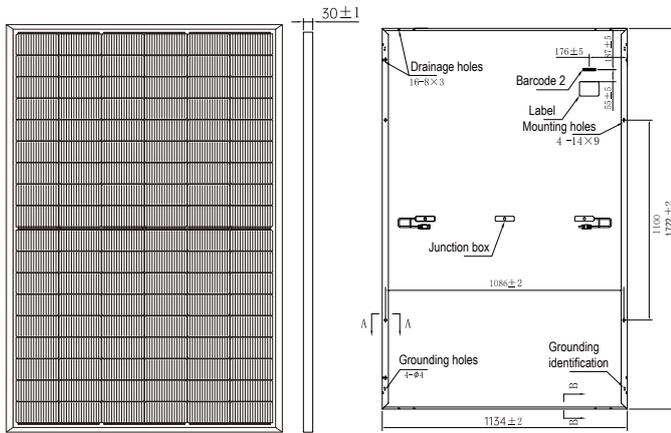
Complete System
and IEC Product Certification

IEC 61215(2016), IEC 61730(2016) ISO9001:
2015:Quality Management System ISO14001:
2015:Environment Management System
ISO45001:2018:Occupational Health
and Safety Management System



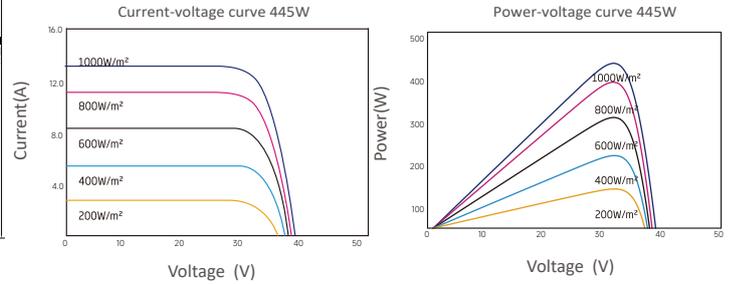
30-Year Excess Linear Power Output Warranty





RS41-425~445NX-E3

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Electrical Characteristics STC	RS41-425NX-E3	RS41-430NX-E3	RS41-435NX-E3	RS41-440NX-E3	RS41-445NX-E3
Maximum Power (Pmax)	425W	430W	435W	440W	445W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	21.76%	22.02%	22.28%	22.53%	22.79%
Maximum Power Current (Imp)	13.17A	13.24A	13.31A	13.38A	13.45A
Maximum Power Voltage (Vmp)	32.27V	32.48V	32.68V	32.88V	33.09V
Short Circuit Current (Isc)	13.69A	13.77A	13.85A	13.93A	14.01A
Open Circuit Voltage (Voc)	39.05V	39.28V	39.51V	39.73V	39.95V

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

Electrical Characteristics NOCT	RS41-425NX-E3	RS41-430NX-E3	RS41-435NX-E3	RS41-440NX-E3	RS41-445NX-E3
Maximum Power (Pmax)	322W	326W	330W	334W	338W
Maximum Power Current (Imp)	10.73A	10.79A	10.86A	10.92A	10.98A
Maximum Power Voltage (Vmp)	30.01V	30.20V	30.39V	30.58V	30.77V
Short Circuit Current (Isc)	11.33A	11.41A	11.48A	11.55A	11.63A
Open Circuit Voltage (Voc)	36.71V	36.92V	37.14V	37.35V	37.56V

NOCT , Irradiance of 800W/m², AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Mechanical Characteristics	
Cell Type	Mono N-Type,108(6×18) Half-Cut cells
Glass	3.2mm,High Transmission,Low Iron, Tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	1722x1134x30mm
Output Cable	4mm2(EU),300mm,length can be customized
Weight	22kg
Connector	MC4 Compatible

Packing Information	
Container	40' HQ
Pallets per Container	26
Pieces per Container	962

Characteristics	
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Nominal Operating Cell Temperature(NOCT)	43±2°C
Fire Performance	IEC Class C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings	
Operatinh Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A