

## MONO-FACIAL MODULE

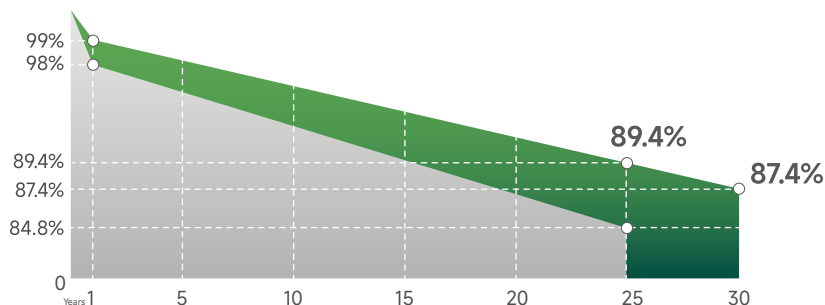
# RS41-420~440N-E3

N-Type /Positive power tolerance of  $\pm 3\%$ /Max module efficiency 22.53%.

- 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

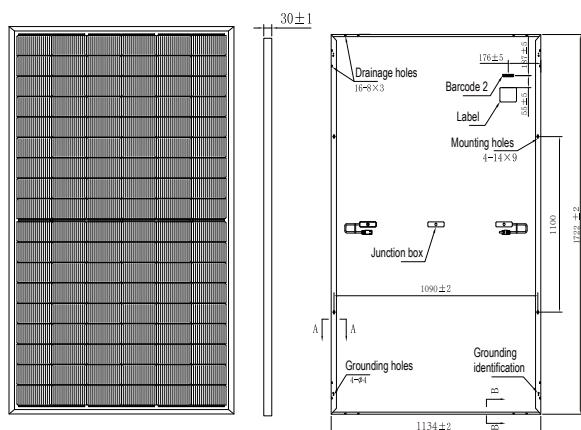
Complete System  
and IEC Product Certification

IEC 61215(2021), 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

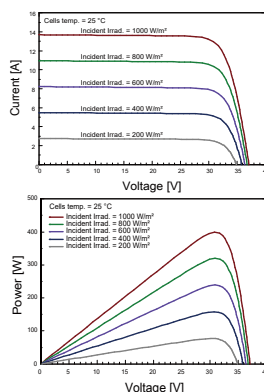




Drawing Only for Reference

# RS41-420~440N-E3

MONO-FACIAL MODULE



PV Connectors Make:Zerun Co.,Ltd.  
PV Connectors Model:Z4S-abcde

Electrical Characteristics STC	RS41-420N-E3	RS41-425N-E3	RS41-430N-E3	RS41-435N-E3	RS41-440N-E3
Maximum Power (Pmax)	420W	425W	430W	435W	440W
Power Sorting Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	21.51%	21.76%	22.02%	22.28%	22.53%
Maximum Power Current (Imp)	13.17A	13.24A	13.31A	13.38A	13.45A
Maximum Power Voltage (Vmp)	31.89V	32.10V	32.31V	32.51V	32.71V
Short Circuit Current (Isc)	13.69A	13.77A	13.85A	13.93A	14.01A
Open Circuit Voltage (Voc)	38.59V	38.82V	39.05V	39.28V	39.50V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C)  
Tolerance of Power/Voc/ISC : ±3%/±3%/±3%

Electrical Characteristics NOCT	RS41-420N-E3	RS41-425N-E3	RS41-430N-E3	RS41-435N-E3	RS41-440N-E3
Maximum Power (Pmax)	318.00W	322.00W	326.00W	330.00W	334.00W
Maximum Power Current (Imp)	10.72A	10.79A	10.85A	10.91A	10.98A
Maximum Power Voltage (Vmp)	29.66V	29.85V	30.05V	30.24V	30.42V
Short Circuit Current (Isc)	11.33A	11.40A	11.47A	11.55A	11.62A
Open Circuit Voltage (Voc)	36.27V	36.49V	36.71V	36.92V	37.13V

NOCT , Irradiance of 800W/m<sup>2</sup>, AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Mechanical Characteristics	
Cell Type	MonoN-Type,108(6×18)Half-Cut cells
Glass	3.2mm,High Transmission,Low Iron,Tempered Glass
Frame	Anodized Aluminum Alloy
Juction Box	IP68 Rated
Dimension	1722×1134×30mm
Output Cable	4 mm2 (EU),300 mm,length can be customized
Weight	22kg

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)	45°C±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.

Packing Information	
Container	40' HQ
Pallets per Container	26
Pieces per Container	936

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

