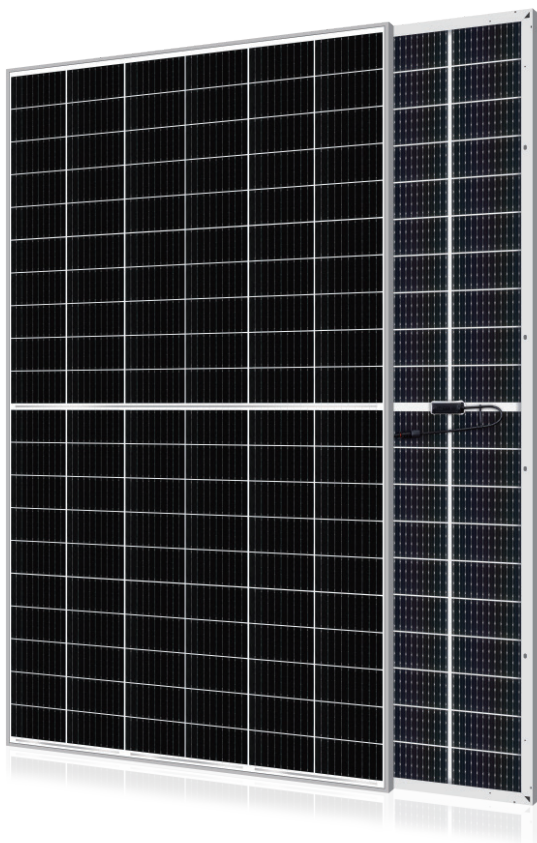
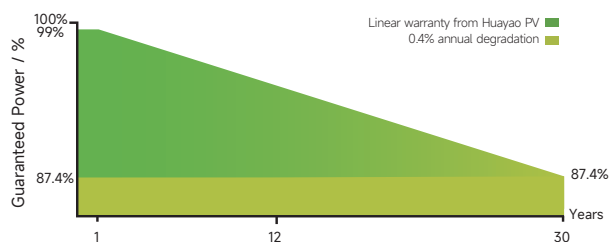


610~615W HY610~615-N120CDD



LINEAR PERFORMANCE WARRANTY

- 15** Year Product Warranty
- 30** Year Linear Power Warranty



Hyper N60

N-TOPCon, Bi-facial
120-cell, 210mm, MBB
±3% power tolerance

KEY FEATURES



MBB half cell design

Half-cut cells bring lower cell connection loss and lower thermal coefficients to ensure higher power output



More Power

Industry leading N-TOPCon technology applied to generate ultra-high power up to 744 Wp with optimized temperature coefficient and lower working temperature



High Reliability

Strict outsourcing BOM materials quality control and 100% in-house wafer and the TOPCon cell performance boost the power warranty to 30 Year



Excellent Low-light Performance

Advanced N-TOPCon solar cell technology allows for excellent performance in low-light environments



Highly Strengthened Design

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



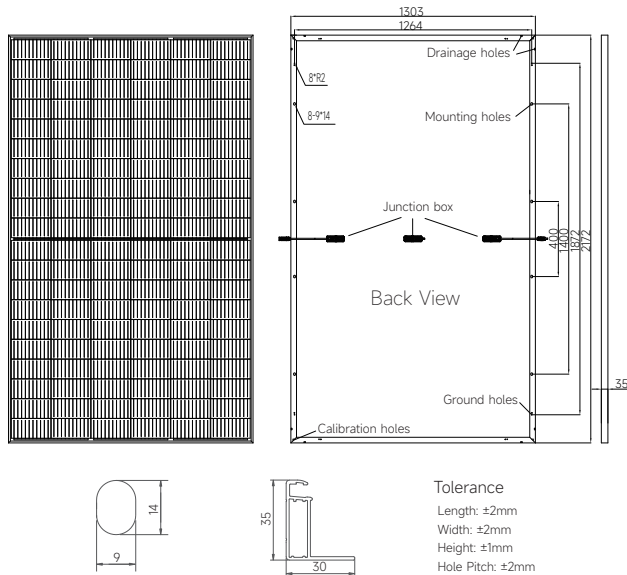
PID Resistant(Available on Request)

Excellent PID resistance performance optimized by unique cell process design and BOM material control

IEC 61215 (2016), IEC 61730 (2016)



Engineering Drawings



Electrical Characteristics

| | HY610-N120CDD | HY615-N120CDD |
|---|---------------|---------------|
| P _{max} (W) | 610 | 615 |
| V _{mp} (V) | 35.72 | 35.92 |
| I _{mp} (A) | 17.08 | 17.12 |
| V _{oc} (V) | 42.82 | 43.03 |
| I _{sc} (A) | 18.08 | 18.12 |
| Module efficiency(%) | 21.55 | 21.73 |
| Maximum system voltage(V) | 1500 | |
| Fuse Rating(A) | 30 | |
| Temperature coefficient P _{max} (%/°C) | -0.30 | |
| Temperature coefficient I _{sc} (%/°C) | 0.04 | |
| Temperature coefficient V _{oc} (%/°C) | -0.25 | |

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

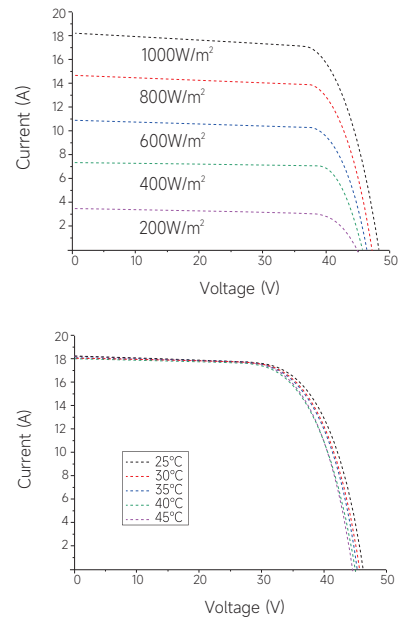
Bifacial Output-Backside Power Gain

| | P _{max} (W) | 671 | 676 |
|-----|----------------------|-------|-------|
| 10% | Module efficiency(%) | 23.71 | 23.89 |
| 20% | P _{max} (W) | 732 | 738 |
| | Module efficiency(%) | 25.86 | 26.08 |

Packing Configuration

| | |
|------------------------|----------------|
| Pieces per pallet | 31 |
| Size of packing (mm) | 1350*1130*2300 |
| Weight of packing (kg) | 1145 |
| Pieces per container | 527 |
| Size of container | 40' HQ |

I-V Curves



Working Characteristics

| | HY610-N120CDD | HY615-N120CDD |
|----------------------|---------------|---------------|
| P _{max} (W) | 465 | 469 |
| V _{mp} (V) | 33.57 | 33.78 |
| I _{mp} (A) | 13.83 | 13.86 |
| V _{oc} (V) | 40.55 | 40.75 |
| I _{sc} (A) | 14.58 | 14.61 |
| Power tolerance(%) | ±3 | |
| NOCT(°C) | 44±2 | |

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

Mechanical Characteristics

| | |
|-------------------------|------------------------------------|
| Number of cells | 120 pcs |
| Size of cell (mm) | 210*105 |
| Type of cell | N type Mono |
| Thickness of glass (mm) | 2.0 |
| Type of frame | Anodized aluminum alloy |
| Junction box | IP68 |
| Size of module (mm) | 2172*1303*35 |
| Weight (kg) | 35 |
| Cables/connectors | 4mm ² , Genuine MC4-EVO |
| Length of Cable | Portrait: +300mm/ -300mm |

Maximum Ratings

| | |
|---------------------------|--------------------------------------|
| Fire Rating | Class C (IEC 61730) |
| Operating Temperature(°C) | -40~85 |
| Operating humidity(°C) | 5-85 |
| Allowable Hail Load | 25mm ice-ball with velocity of 23m/s |

