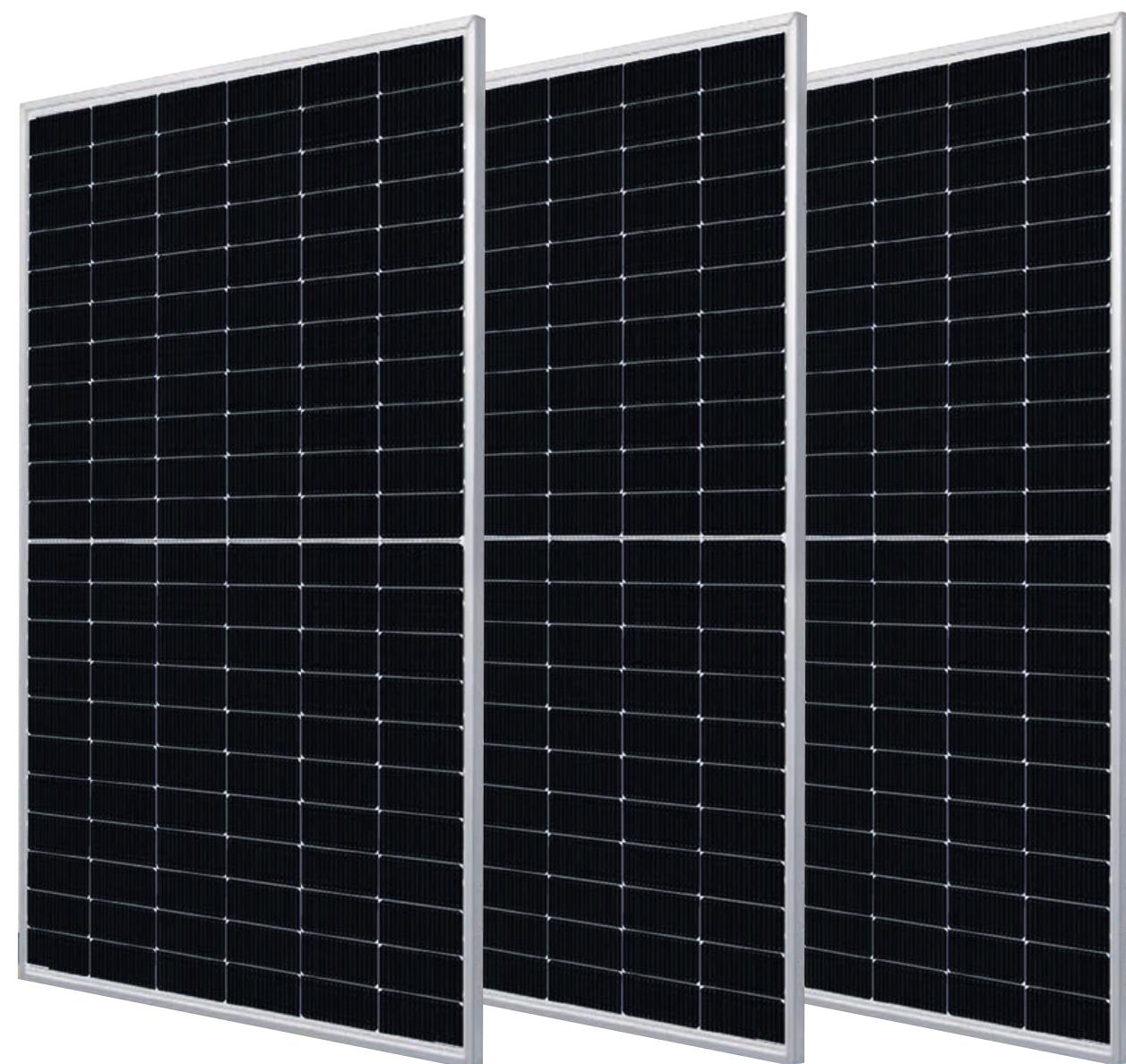


ਫਰਾਈ ਸੂਰਜ ਫ਼ਮਾਰੀ ਬਿਜਲੀ

SKYGREEN®
N-Type TOPCon

Bifacial Solar Module

144 Half-Cut Cells | 16BB Multi-Busbar
Class-A | 575 W



Key Features

 **High Efficiency 22.26%**
More energy per m²

 **N-Type TOPCon Technology**
Lower degradation, higher yield

 **Bifacial Gain up to 30%**
Extra rear-side power

 **Low Annual Degradation ≤0.40%**
Long-term performance

 **Superior Low-Light Performance**
Performs in cloudy weather

 **Extreme Load Tested (5400 Pa / 2400 Pa)**
Built tough for India

 **15Y Product / 30Y Linear Performance Warranty**
Bankable reliability

 **Positive Power Tolerance +−3**
Guaranteed minimum

 **Dual Glass Construction**
Anti-PID, longer life

| Product Certifications |



BIS Certified

IS 14286:2010 / IEC 61215:2005 – Design Qualification & Type Approval

IS/IEC 61730-1:2004 – Safety (Construction)

IS/IEC 61730-2:2004 – Safety (Testing)

ELECTRICAL CHARACTERISTICS (STC)

(STC: 1000 W/m², 25°C, AM1.5)

| Parameter | Value |
|-----------------------------|-----------|
| Maximum Power (Pmax) | 575 W |
| Max Power Voltage (Vmp) | 43.82 V |
| Max Power Current (Imp) | 13.12 A |
| Open Circuit Voltage (Voc) | 51.74 V |
| Short Circuit Current (Isc) | 13.79 A |
| Module Efficiency | 22.26% |
| Power Tolerance | +/-3% |
| Rear Side Gain | Up to 30% |
| Bifaciality Factor | 80 ± 5% |

ELECTRICAL CHARACTERISTICS (NOCT)

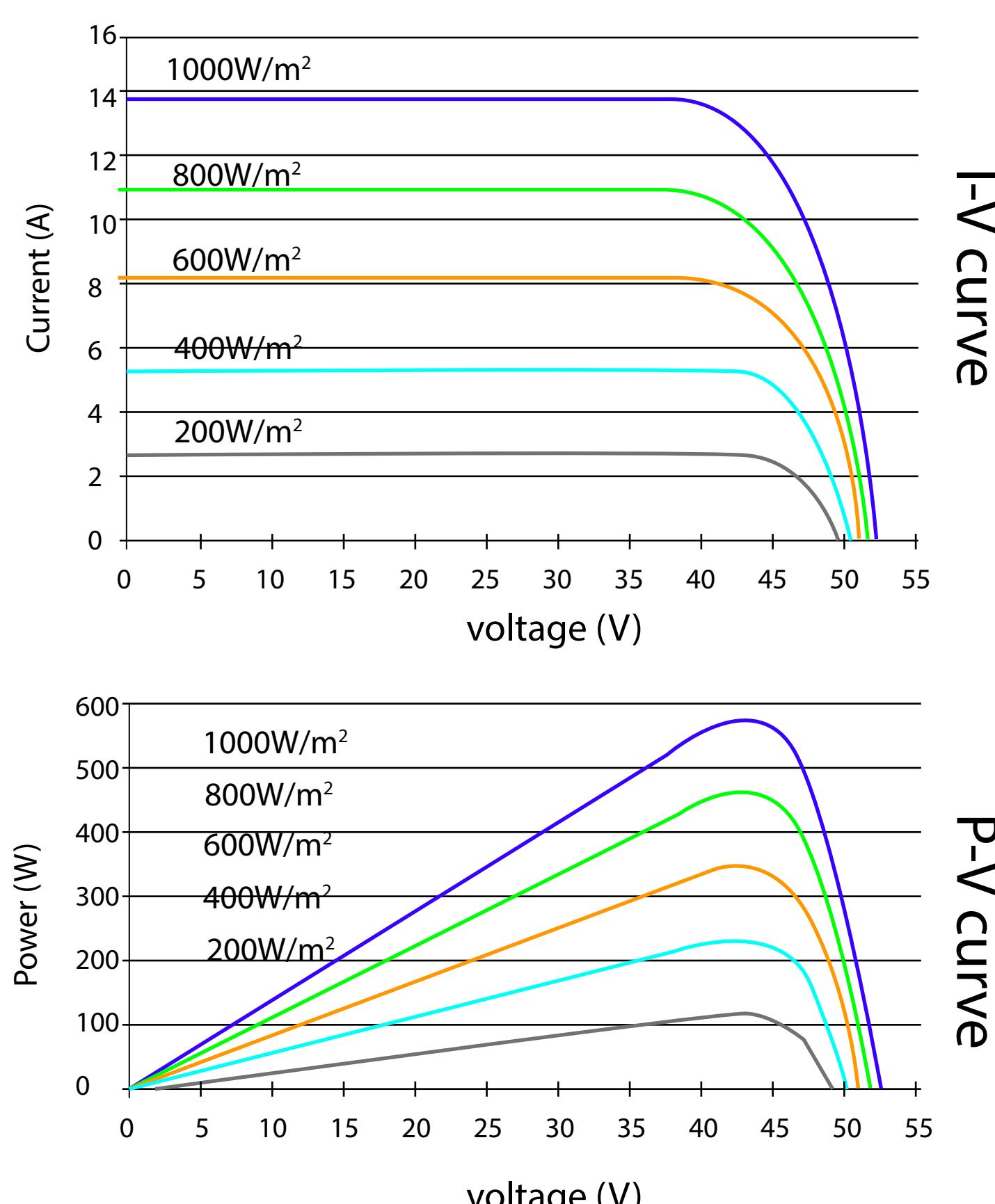
(NOCT: 800 W/m², 20°C, AM1.5)

| Parameter | Value |
|-----------------------------|---------|
| Power Output (Pmax) | 430 W |
| Voltage at Pmax (Vmp) | 41.24 V |
| Current at Pmax (Imp) | 10.42 A |
| Open Circuit Voltage (Voc) | 48.93 V |
| Short Circuit Current (Isc) | 12.53 A |

REAR-SIDE GAIN OUTPUT (INDICATIVE AT STC)

| Rear-Side Gain | Maximum Power (Pmax) | Module Efficiency |
|-----------------|----------------------|-------------------|
| Front-Side Only | 575 W | 22.26% |
| +5% Gain | 604 W | 22.37% |
| +10% Gain | 633 W | 24.49% |
| +20% Gain | 690 W | 26.71% |
| +30% Gain | 748 W | 28.94% |

(Note: Actual gain depends on albedo, installation design, and site conditions.)



TEMPERATURE COEFFICIENTS

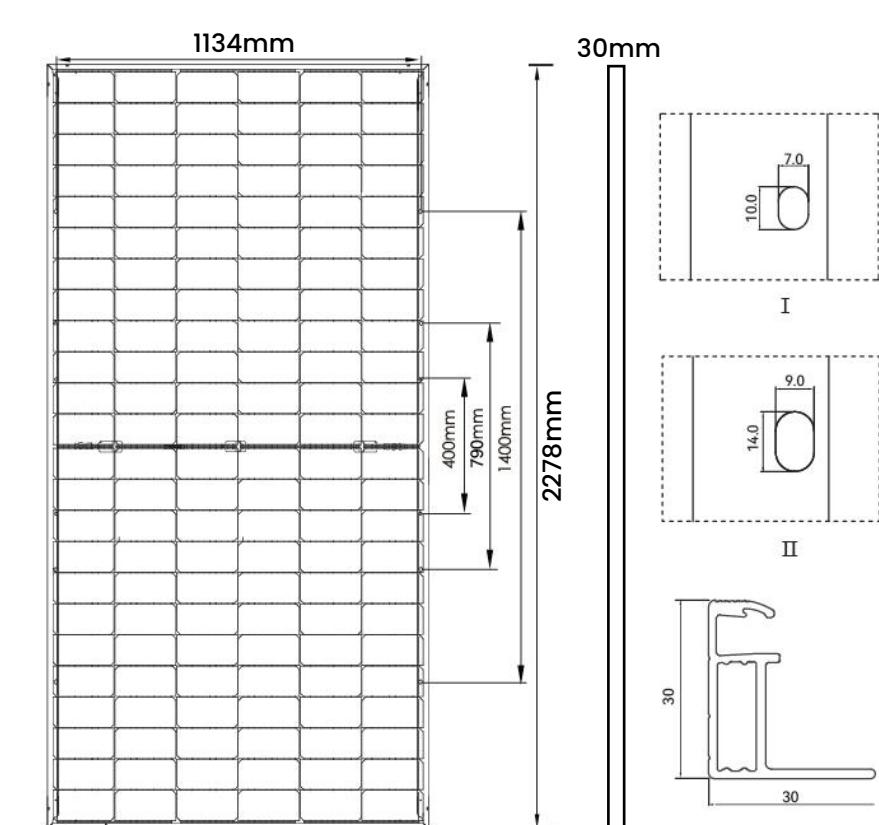
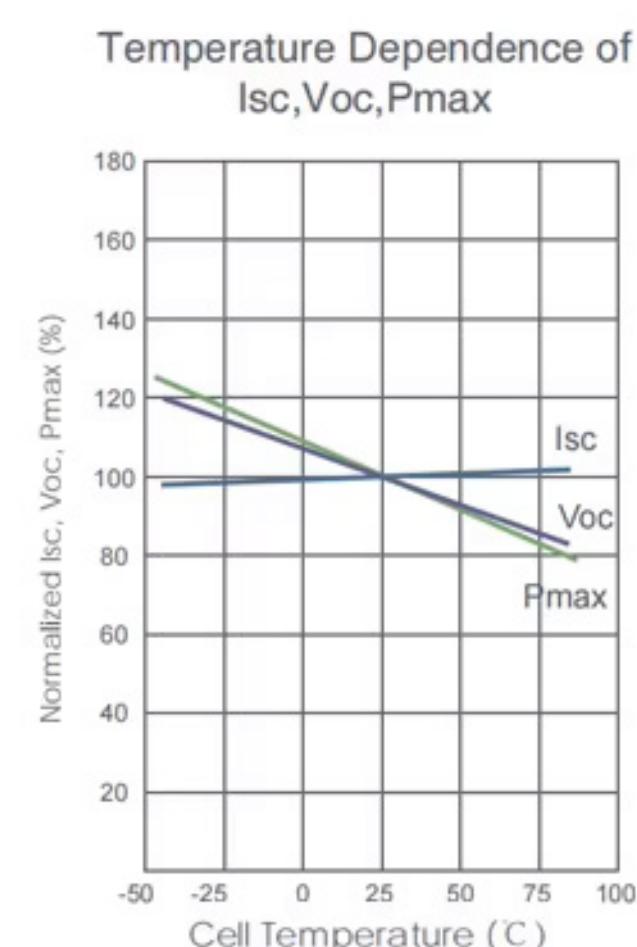
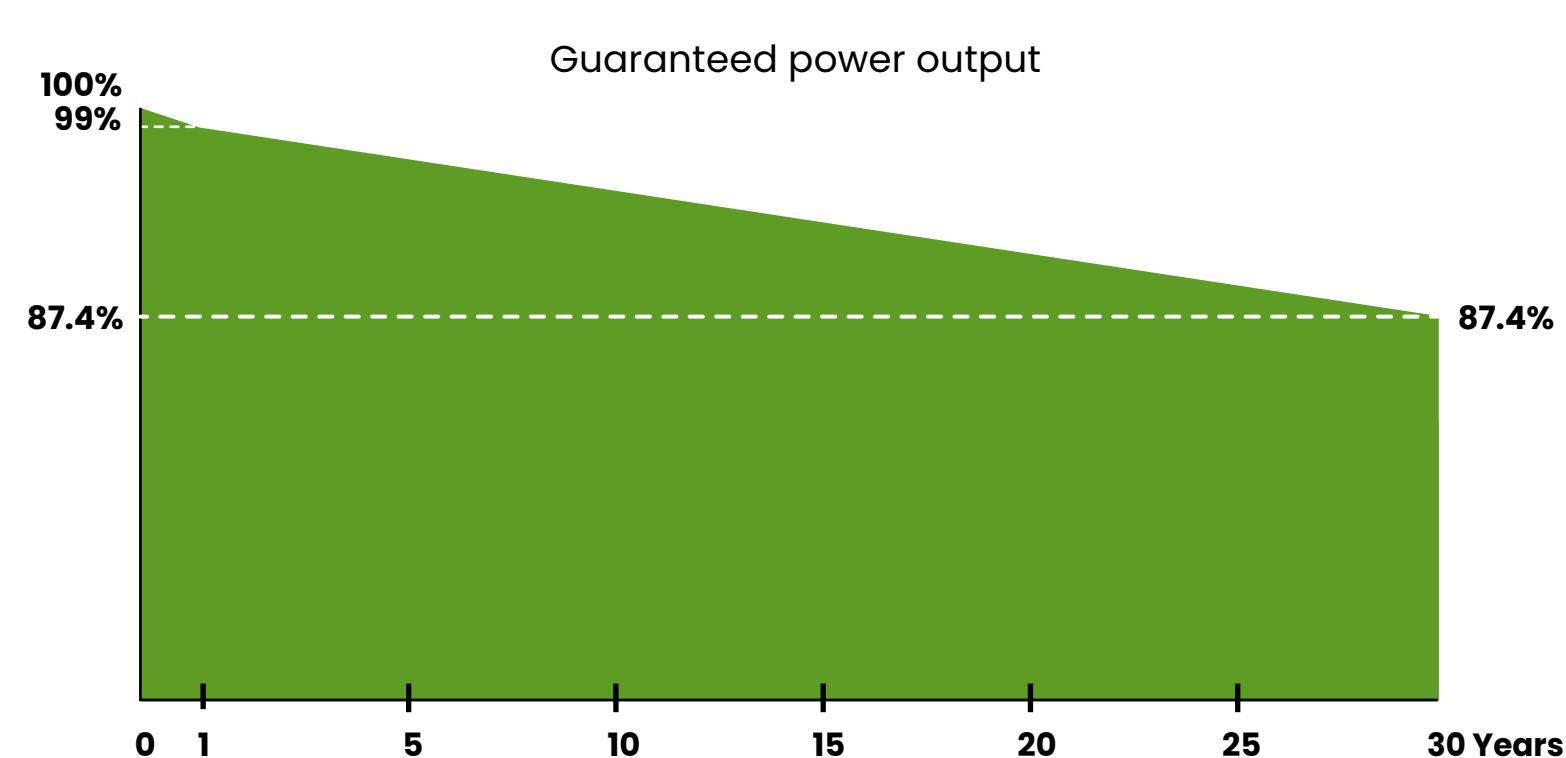
- Pmax (γ): -0.30% / °C
- Voc (β): -0.26% / °C
- Isc (α): +0.046% / °C
- Operating Temperature: -40°C ~ +85°C
- NOCT: 45°C

MAXIMUM RATINGS

- Max System Voltage: 1500 V DC
- Max Series Fuse Rating: 30 A
- Fire Rating: Class C
- Application Class: A
- Mechanical Load: 5400 Pa (Front), 2400 Pa (Rear)

MECHANICAL PARAMETERS

- Dimensions: 2278 × 1134 × 30 mm
- Weight: 30 kg
- Cell Type: 144 Half-Cut N-Type TOPCon (182 mm M10)
- Busbar: 16BB Multi-Busbar
- Glass: Dual 2.0 mm Tempered (Front & Rear)
- Frame: Anodized Aluminium Alloy
- Junction Box: IP68, 3 Bypass Diodes
- Connector: MC4 Compatible
- Cable: 4 mm², 300 mm
- Mounting Hole Distance: 400 mm



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Disclaimer

The specifications in this datasheet are subject to change without prior notice. Module performance may vary by ±3% due to manufacturing tolerances. SKYGREEN makes no warranties, express or implied, with respect to the information contained herein. Actual performance may differ depending on site conditions, installation methods and environmental factors.