

N-type 60H 460-480 Watt MONO-FACIAL MODULE

N-Type

Positive power tolerance of 0~+3%

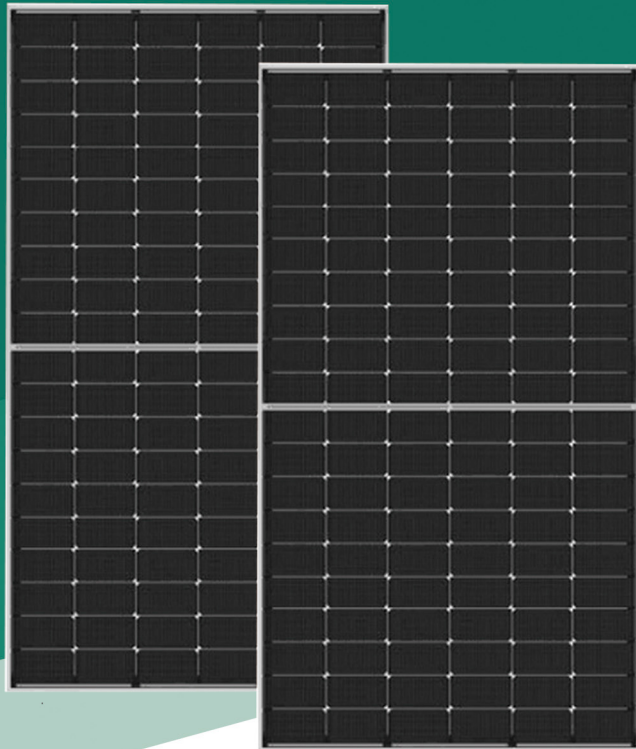
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

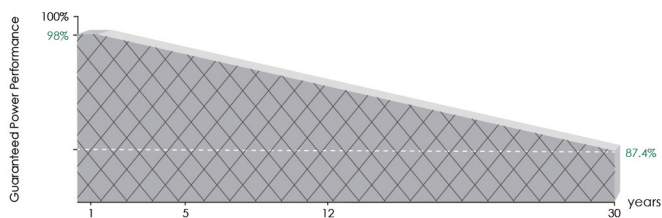
ISO45001:2018

Occupational health and safety management systems



Key Features

LINEAR PERFORMANCE WARRANTY



12 Year Product Warranty

30 Year Linear Power Warranty

0.4% Annual Degradation Over 30 years



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 30-year linear performance warranty¹.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



ENDURING HIGH PERFORMANCE

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

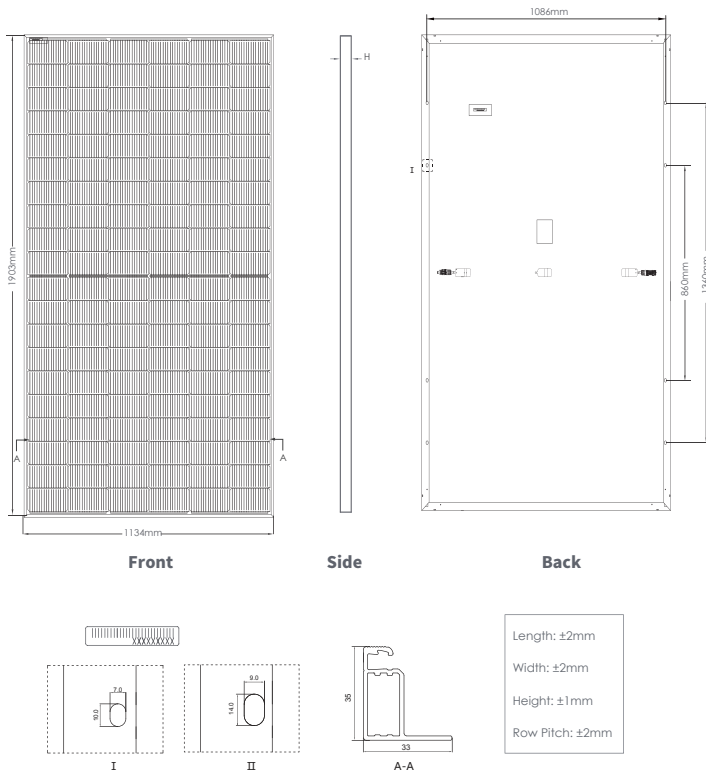


Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

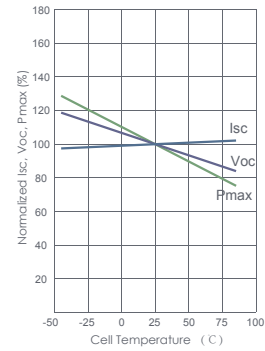


Engineering Drawings



Electrical Performance & Temperature Dependence

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



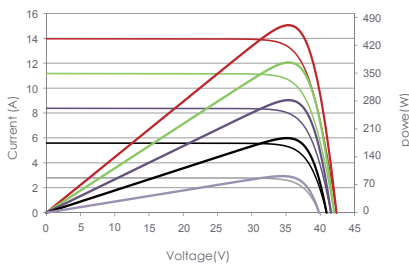
Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1903×1134×30mm
Weight	24.2 kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length
Packaging	36pcs/pallets, 864pcs/ 40'HQ Container

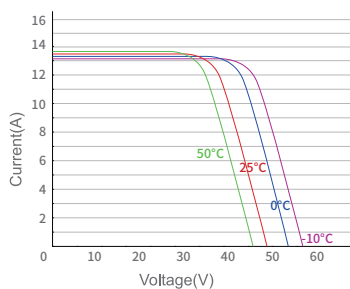
ELECTRICAL DATA (STC)

Module Type	SKM460-480N-60H				
Maximum Power (P_{max})(Wp)	460	465	470	475	480
Maximum Power Voltage (V_{mp})(V)	34.72	34.89	35.05	35.21	35.38
Maximum Power Current (I_{mp})(A)	13.25	13.33	13.41	13.49	13.57
Open-circuit Voltage (V_{oc})(V)	42.05	42.22	42.38	42.54	42.71
Short-circuit Current (I_{sc})(A)	13.99	14.07	14.15	14.23	14.31
Module Efficiency STC (%)	21.32	21.55	21.78	22.01	22.24

Current-Voltage & Power-Voltage Curves (470W)



I-V characteristics at different temperatures
(AM1.5, 1000W/m²)



ELECTRICAL DATA (NMOT)

Module Type	SKM460-480N-60H				
Maximum Power (P_{max})(Wp)	346	350	353	357	361
Maximum Power Voltage (V_{mp})(V)	32.60	32.77	32.94	33.10	33.27
Maximum Power Current (I_{mp})(A)	10.61	10.67	10.73	10.79	10.85
Open-circuit Voltage (V_{oc})(V)	39.94	40.10	40.25	40.41	40.57
Short-circuit Current (I_{sc})(A)	11.29	11.36	11.42	11.49	11.55

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45 \pm 2°C
Temperature Coefficient of V_{oc}	-0.25%/°C
Temperature Coefficient of I_{sc}	0.046%/°C
Temperature Coefficient of P_{max}	-0.30%/°C
Power tolerance	0~+3%
Operational Temperature	-40 °C~+85°C
Maximum System Voltage	1000/1500VDC (IEC)
Max Series Fuse Rating	25A

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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