

N-type 54H-B 410-430 Watt ALL-BLACK MODULE

N-Type

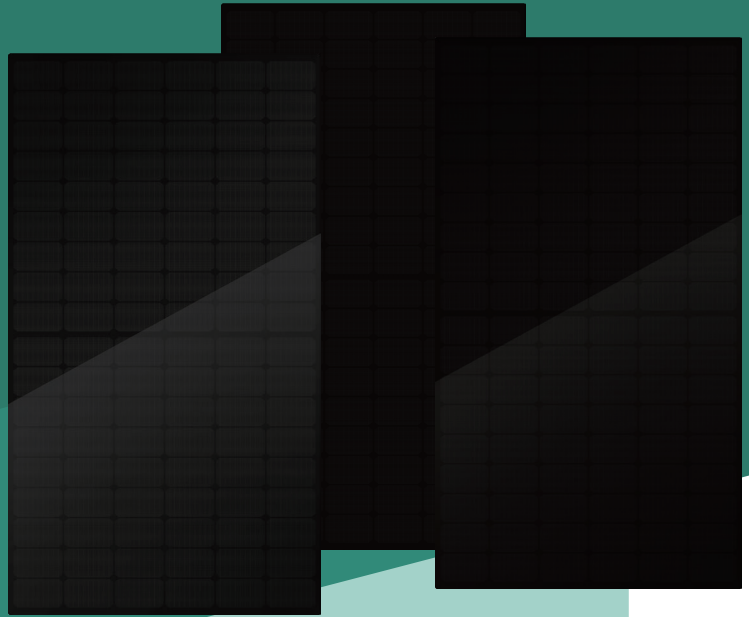
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

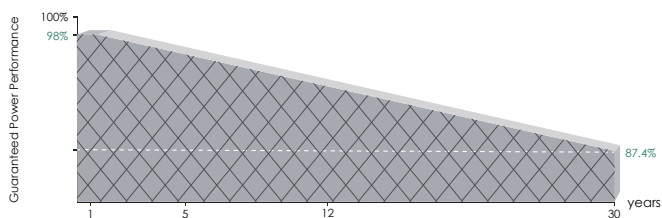
ISO14001:2015: Environment Management System

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.

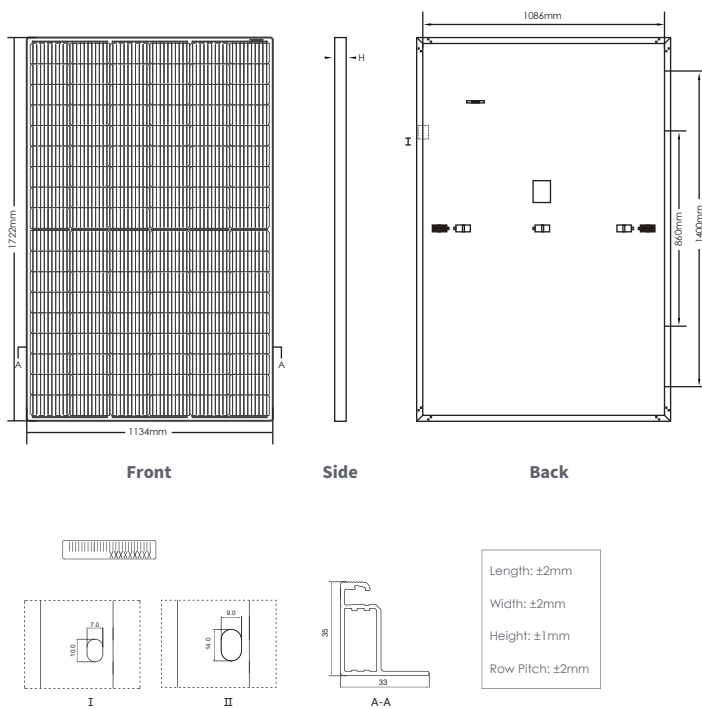


Enhanced Mechanical Load

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

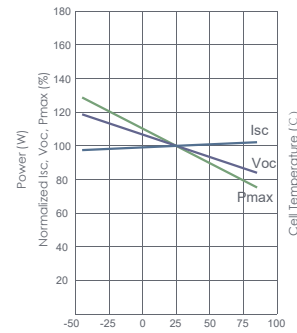


Engineering Drawings



Electrical Performance & Temperature Dependence

Temperature Dependence of Isc, Voc, Pmax



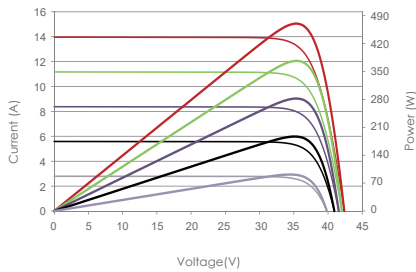
Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	22 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, 936pcs/ 40'HQ Container

ELECTRICAL DATA (STC)

Module Type	SKM410N~430N-54H-B				
Maximum Power (Pmax)(Wp)	410	415	420	425	430
Maximum Power Voltage (Vmp)(V)	31.66	31.85	32.04	32.23	32.42
Maximum Power Current (Imp)(A)	12.95	13.03	13.11	13.19	13.27
Open-circuit Voltage (Voc)(V)	37.77	37.96	38.15	38.34	38.53
Short-circuit Current (Isc)(A)	13.68	13.74	13.62	13.68	13.74
Module Efficiency STC (%)	21.00	21.25	21.51	21.77	22.02

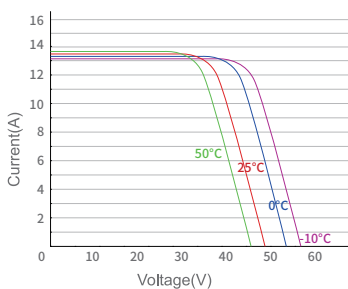
Current-Voltage & Power-Voltage Curves (415W)



ELECTRICAL DATA (NMOT)

Module Type	SKM410N~430N-54H-B				
Maximum Power (Pmax)(Wp)	308	312	316	319	323
Maximum Power Voltage (Vmp)(V)	29.59	29.78	29.97	30.48	30.67
Maximum Power Current (Imp)(A)	10.42	10.48	10.54	10.6	10.66
Open-circuit Voltage (Voc)(V)	35.88	36.06	36.25	36.44	36.63
Short-circuit Current (Isc)(A)	11.04	11.09	11.14	11.18	11.21

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



TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.30%/°C
Power tolerance	0~+3%
Operational Temperature	-40 °C~+85°C
Maximum System Voltage	1000VDC (IEC)
Max Series Fuse Rating	25A