

HERO®PV

430W FULL BLACK



Glass Coating

Non-Color Coating ensures an even darker appearance during light reflection.



N-Type TOPCon Cells

N-Type solar cells exhibit higher efficiency compared to P-Type cells. This means more solar energy is converted into electrical energy.



High Fire Safety Class

Class A fire-rated HERO®PV solar modules are designed with materials that have high resistance to ignition and flame spread.



Stäubli MC4 Connectors

Stäubli MC4-EVO2 for secure connections from the original manufacturer.



Better Temperature Coefficient

Higher power output even under low-light environments like on cloudy or foggy days.



FULL BLACK Design

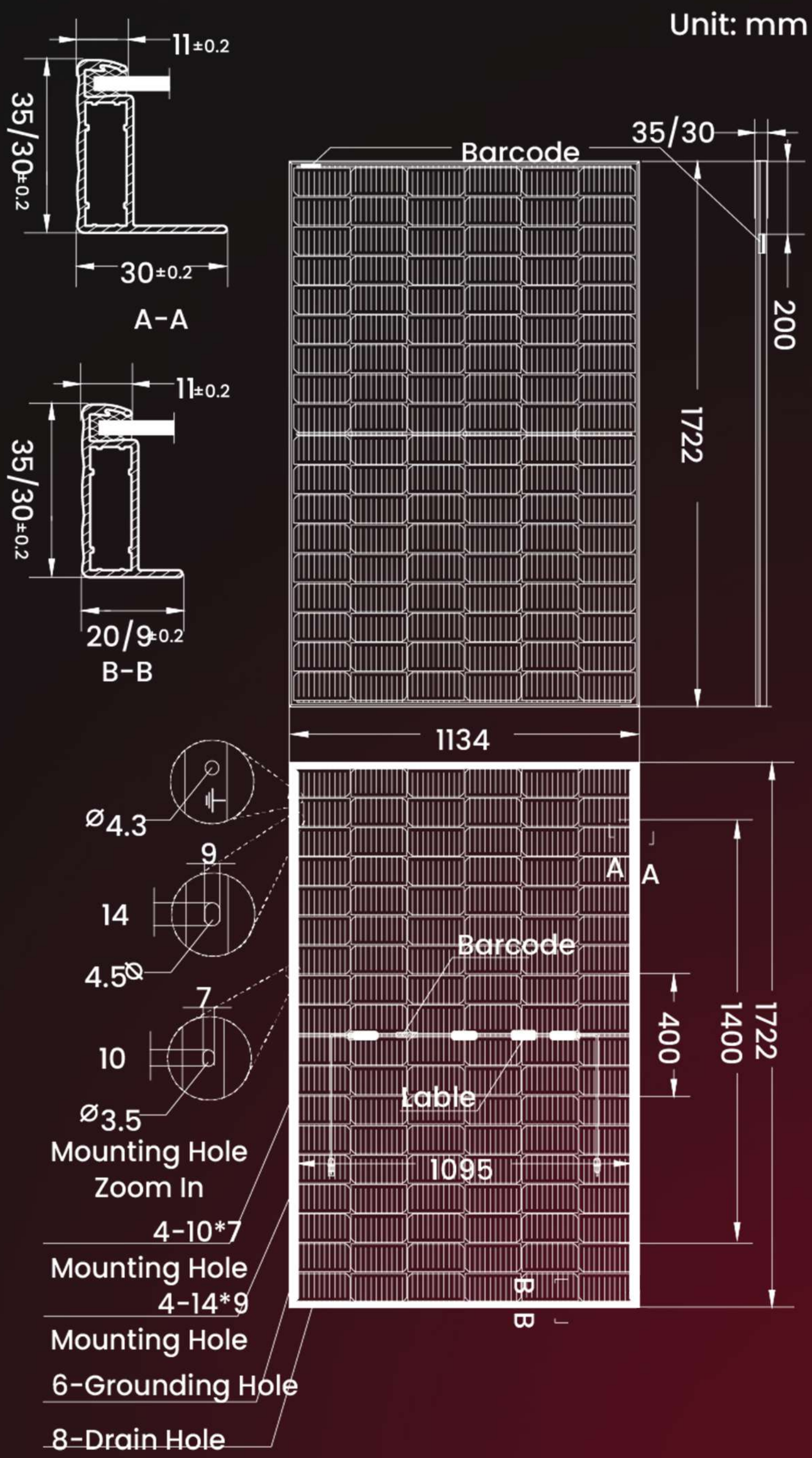
Completely black design with black film between the cells.



Materials and workmanship warranty



Linear power warranty


ELECTRICAL CHARACTERISTICS (STC*)

Model Number	430 FULL BLACK
Rated Power in Watts-Pmax(Wp)	430
Open Circuit Voltage-Voc(V)	39.16
Short Circuit Current-Isc(A)	13.65
Max. Power Voltage-Vmpp(V)	32.58
Max. Power Current-Impp(A)	13.20
Module Efficiency(%)	22.02
Maximum system voltage	1500V DC
Fuse Rating(A)	30
Temperature coefficient Pmax	-0.29%/°C
Temperature coefficient Isc	0.045%/°C
Temperature coefficient Voc	-0.25%/°C
Refer. Bifacial Factor	80±5%

WORKING CHARACTERISTICS (NOCT*)

Model Number	430 FULL BLACK
Rated Power in Watts-Pmax(Wp)	323
Open Circuit Voltage-Voc(V)	37.20
Short Circuit Current-Isc(A)	11.02
Max. Power Voltage-Vmpp(V)	30.30
Max. Power Current-Impp(A)	10.66
Power tolerance	0~+3%
NOCT	45°C ±2°C
Operating Temperature	-40°C~85°C

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

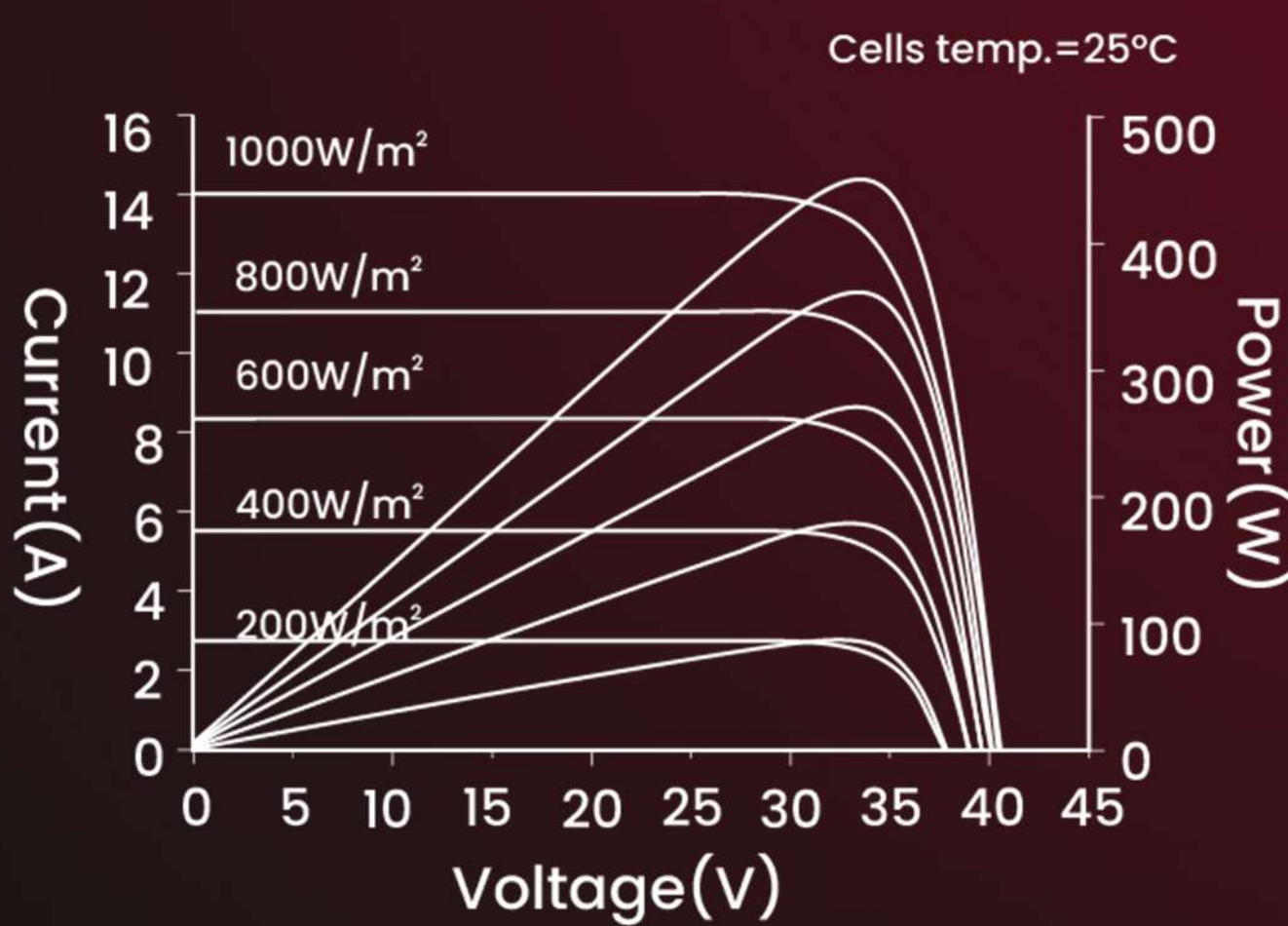
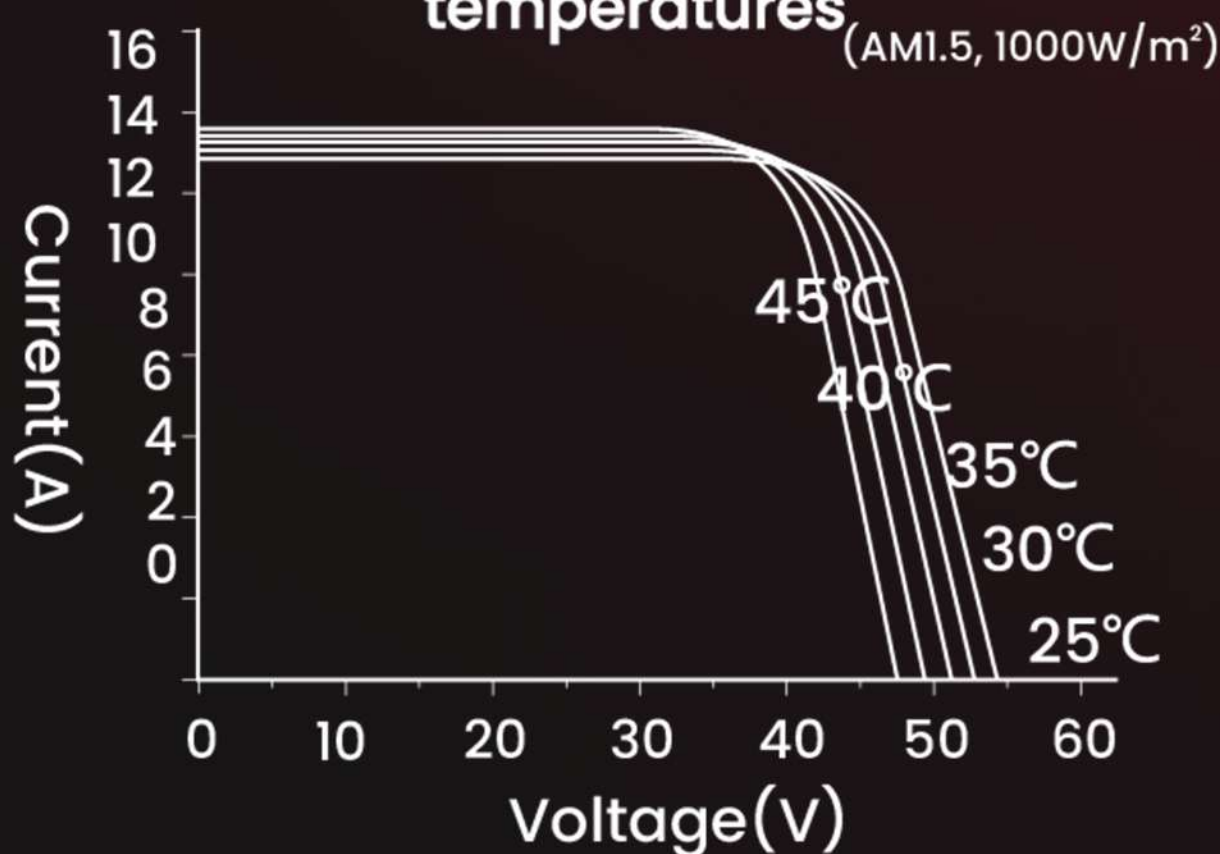
*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s Electrical characteristics with different rear side power gain

Irradiance (%)	Pmax(Wp)	Efficiency(%)	Pmax(Wp)	Efficiency(%)	Pmax(Wp)	Efficiency(%)	Pmax(Wp)	Efficiency(%)
5%	441	22.58	446	22.84	452	23.12	457	23.40
15%	483	24.73	488.75	25.03	494.5	25.32	500.25	25.62
25%	525	26.89	531.25	27.22	537.5	27.53	543.75	27.85

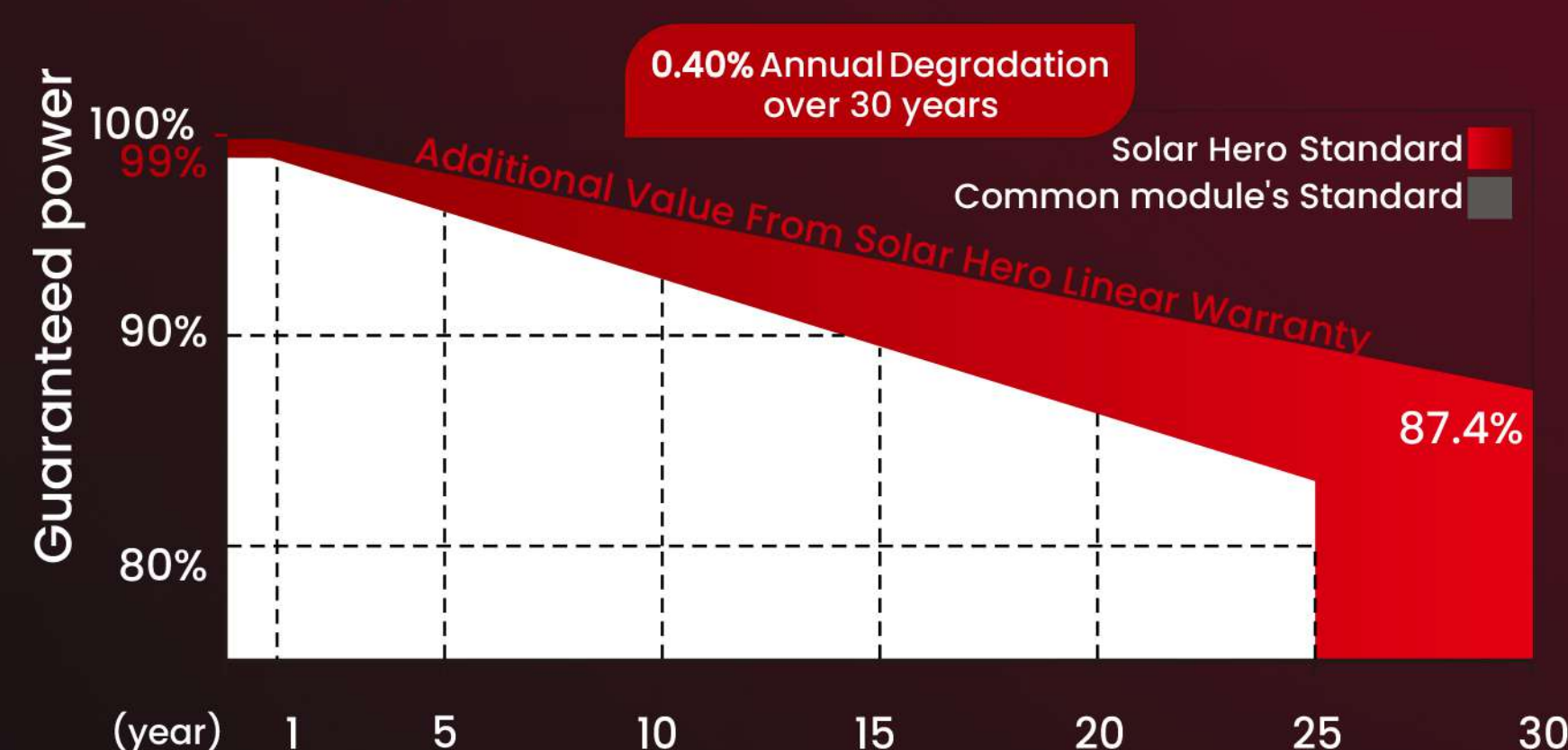
The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	108pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182×91	Size of module(mm)	1722×1134×35/30
Type of cell	N-TOPCon Mono	Weight(kg)	25.8
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm ² , Stäubli MC4-EVO2
Junction box	IP68	Length of Cabel	1200mm (can be customized)

**430 FULL BLACK
I-V characteristics at different irradiances**

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

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	1750×1120×1260	1750×1120×1260
Box Gross Weight (kg)	824	953
Number of Modules Per 40ft (HQ) Container	806	936
Number of Pallets Per 40ft (HQ) Container	26	26

ANNUAL DEGRADATION

LINEAR PERFORMANCE WARRANTY

30-year product warranty / 30-year linear power warranty

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716

