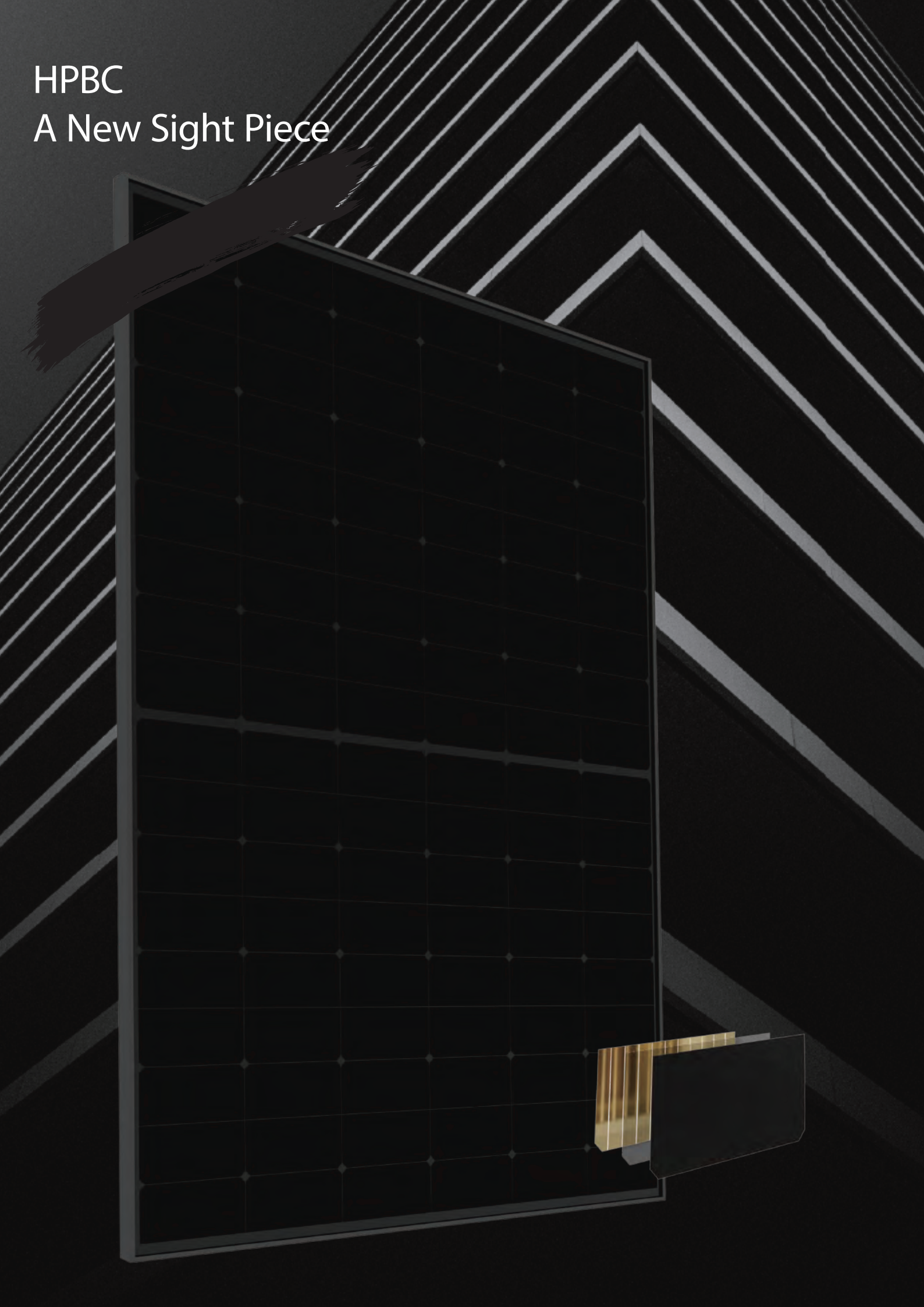


HPBC

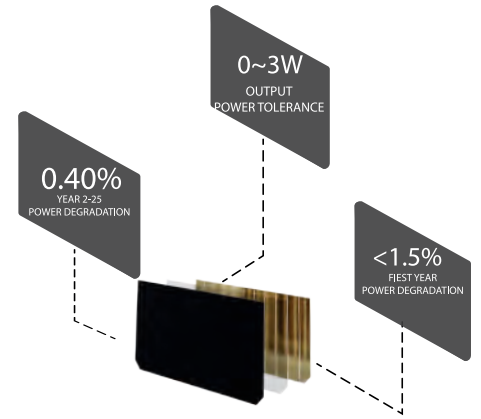
A New Sight Piece



Electrical Characteristics

Module Type	HS445-54-182 BCB		HS450-54-182 BCB	
	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	445	332	450	336
Open Circuit Voltage (Voc/V)	39.73	37.30	39.93	37.49
Short Circuit Current (Isc/A)	14.37	11.61	14.45	11.67
Voltage at Maximum Power (Vmp/V)	33.44	30.51	33.64	30.70
Current at Maximum Power (Imp/A)	13.31	10.90	13.38	10.95
Module Efficiency(%)	22.8		23.0	

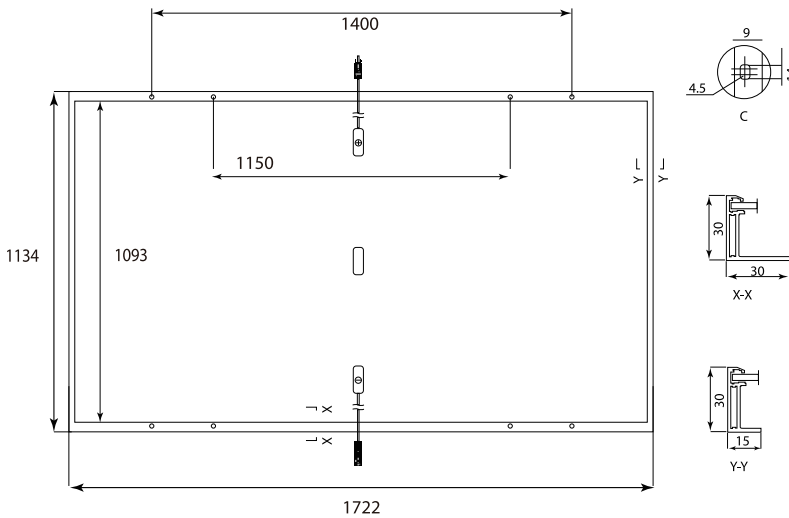
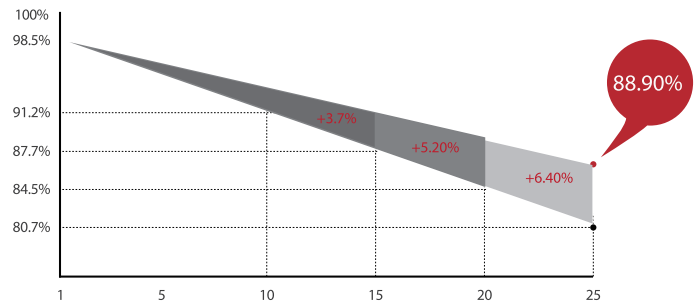
STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%



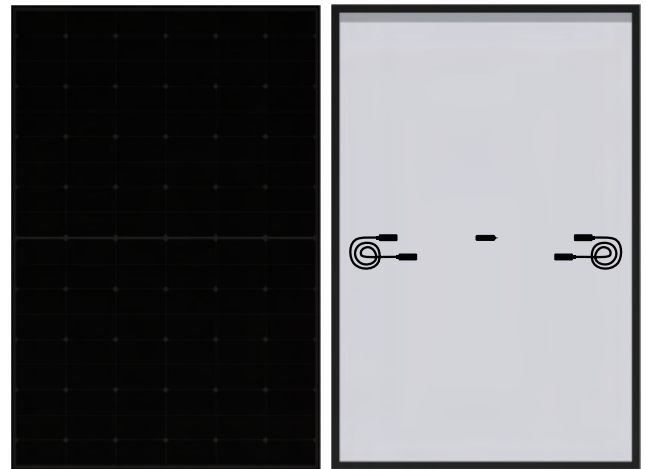
Mechanical Parameters

Cell Type	108 (6X18)
Junction Box	IP68, 3diodes
Output Cable	Standard 4mm, ±1200mm. Or customized
Glass	3.2mm coated tempered glass
Frame	Black Anodized aluminum alloy frame
Weight	20.8kg
Panel Dimension	1722×1134×30mm
Loading Capacity	36pcs per pallet
Container	216pcs per 20'GP / 936pcs per 40'HC

25-Year Power Warranty



Tolerance: Length: ±2mm Width: ±2mm



Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C

Operating Parameters

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~3W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hail hit at the speed of 23m/s

CAUTION: read the installation instruction before using the products. @2023 the specification in the datasheet are subject to change without any notice. Hanover Solar GmbH reserves the right of final interpretation.

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