

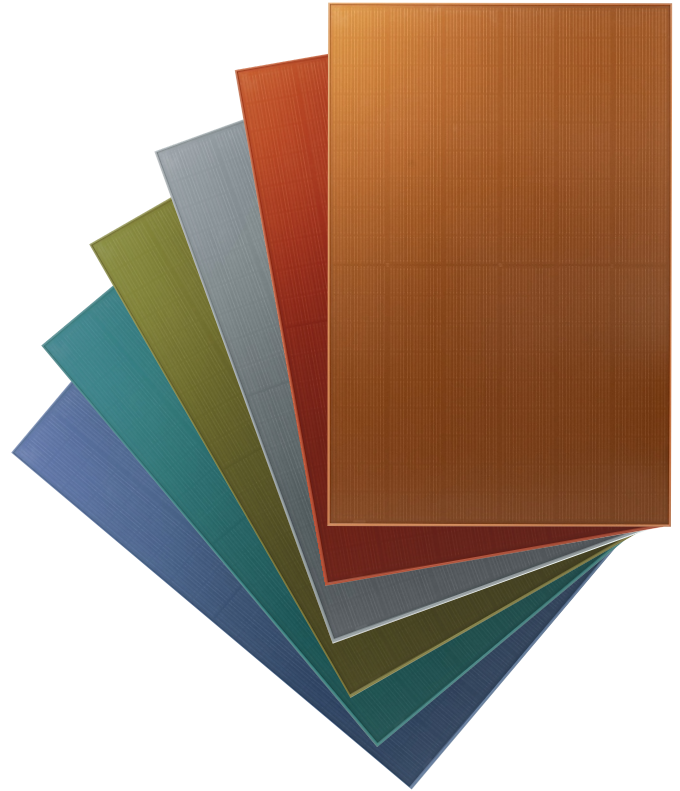


PERLIGHT SOLAR
Powering Possibilities

Colored Solar Panels

Half-Cell N-Type Mono Module

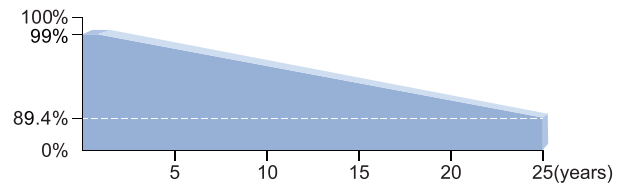
 RAL8001 Glass Light Transmittance 65%	 RAL1020 Glass Light Transmittance 62%
 RAL4004 Glass Light Transmittance 70%	 RAL6033 Glass Light Transmittance 65%
 RAL7016 Glass Light Transmittance 70%	 RAL5009 Glass Light Transmittance 75%



12
YEARS LIMITED
PRODUCT WARRANTY

25
YEARS PERFORMANCE
WARRANTY

Perlight's linear performance warranty



BIPV Design

- Architectural integration with unique design,super architectural aesthetic



PID Resistance

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



Zero LiD (Light Induced Degradation)

- N-type solar cell has no LiD naturally which can increase power generation



Enhanced Mechanical Load

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



Customized Solutions

- For different needs, different solutions, different colors



Withstanding Harsh Environment

- Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



Insurance





Electrical Characteristics (STC)

RAL No.	RAL 1020	RAL 4004	RAL 7016	RAL 8001	RAL 6033	RAL 5009
Maximum Power- Pmax(W)	330	365	390	400	410	415
Open Circuit Voltage - Voc(V)	36.76	39.45	39.56	39.72	39.66	39.52
Short- Circuit Current - Isc(A)	11.46	11.72	12.46	12.74	13.34	13.26
Voltage at Pmax -Vmp(V)	32.17	33.01	33.18	34.61	32.52	33.15
Current at Pmax - Imp(A)	10.26	11.06	11.76	11.56	12.62	12.52
Module Efficiency - η m(%)	16.51	18.26	19.51	20.01	20.51	20.77

Electrical Characteristics (NOCT)

Maximum Power- Pmax(W)	249	275	294	302	310	313
Open Circuit Voltage - Voc(V)	34.41	36.92	37.03	37.18	37.12	36.98
Short- Circuit Current - Isc(A)	9.16	9.36	9.96	10.19	10.68	10.60
Voltage at Pmax -Vmp(V)	30.12	30.90	31.06	32.40	30.47	31.04
Current at Pmax - Imp(A)	8.28	8.92	9.48	9.33	10.19	10.10

Operating Properties

Power Tolerance(W)	$\pm 5\%$
Maximum System Voltage(V)	1500Vdc(IEC/UL)
Maximum Series Fuse Rating (A)	25A

*STC : Irradiance 1000W/m², Cell Temperature 25 C , Air Mass 1.5 *Measurement tolerance: $\pm 3\%$

Mechanical Specifications

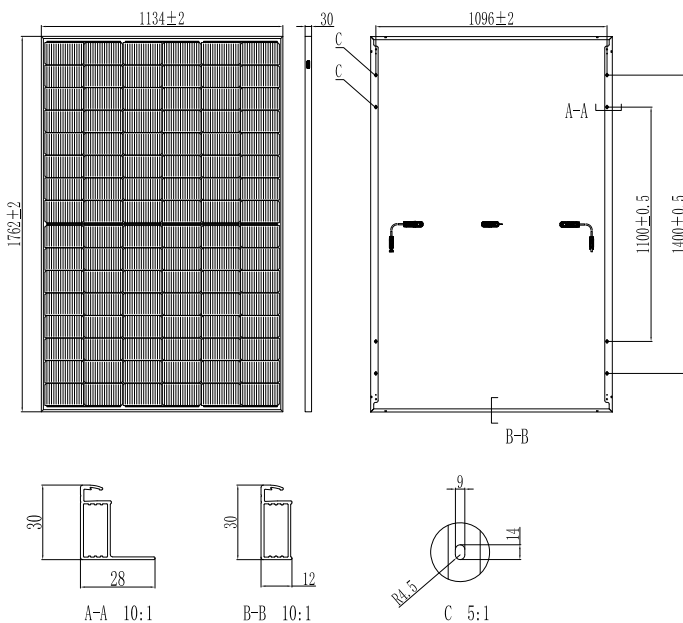
External Dimensions	1762x1134x30mm
Weight	21.5kg
Solar Cells	N-Type 16BB 182x105 mm (2x48pcs)
Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² , 1200mm (+), 1200mm (-), length can be customized
Connector	Stäubli MC4 EVO 2A
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Packing Configuration

Packing Type	40'HQ
Piece / Pallet	36
Piece / Container	936

Temperature Characteristics

Pmax Temperature Coefficient	-0.290%/°C
Voc Temperature Coefficient	-0.250%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature Range	-40~+85°C
Nominal Operating Cell Temperature	45 ± 2 °C



All Dimensions in mm
The above drawing is a graphical representation of the product.



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982