

BOE Flexible Perovskite Photovoltaic Industry Ultra-large High-efficiency Photovoltaic Module

Ultra-large Area • Customizable Sizes • Full-scenario Coverage

Change Lives With Clean Energy



BOE Website

433 W
16.6 %

Max. Power
Max. Efficiency



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Safe & Reliable

Hail-resistant
Impact-resistant
Low Hot-spot Risk
No Micro-cracks
- 

Light, Thin & Aesthetic

Ultra-thin Design, Ultra-narrow
Frame, Ultra-low Curvature, All-black
Aesthetics

*Weight: only 1.5 kg/m²
Thickness: 0.4-1.5 mm
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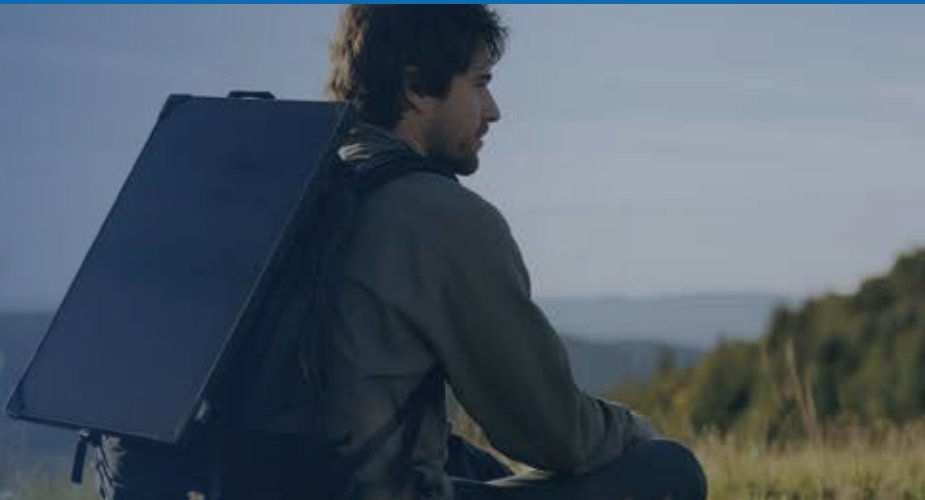
Stable Power Generation

High Low-light Response
Low Temperature Coefficient
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Low-carbon & Eco-friendly

No Lead Leakage Risk
Low Manufacturing Energy
Consumption
Reduced Carbon Footprint

01 Outdoor
Portable



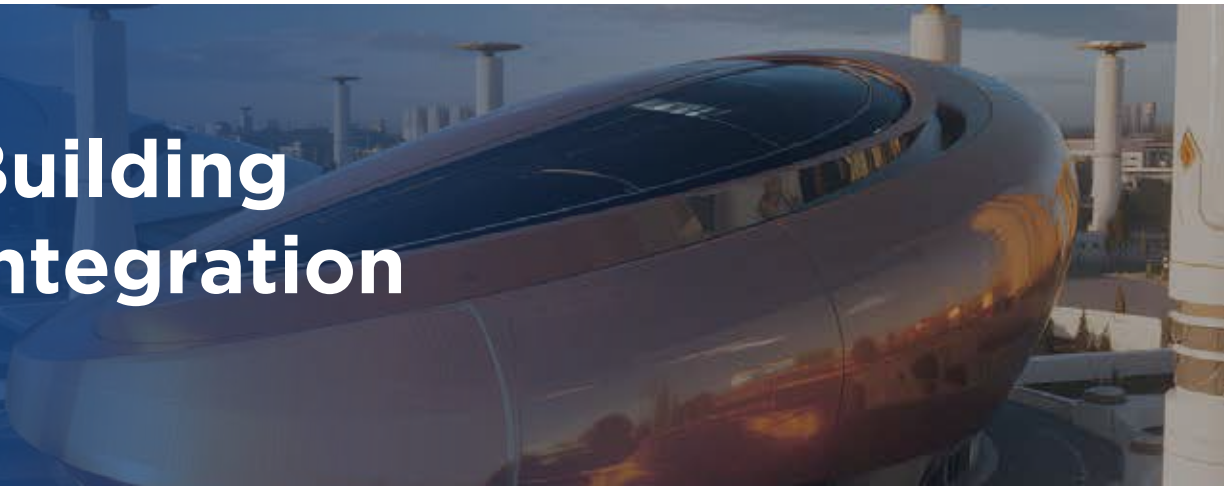
02 Vehicle
Mounting



03 Panoramic
Roof



04 Building
Integration



Electrical Performance Parameters

Product Model	BOE-S-B365	BOE-S-B390	BOE-S-B415	BOE-S-B440	BOE-S-B470
Rated Power Pmax (W)	365	390	415	440	470
Operating Voltage Vmp (V)	155	155	155	155	155
Operating Current Imp (A)	2.3	2.5	2.6	2.8	3.0
Open-circuit Voltage Voc (V)	187	187	187	187	187
Short-circuit Current Isc (A)	2.6	2.8	3.0	3.2	3.4
Power Conversion Efficiency 1Sun (%)	14%	15%	16%	17%	18%

STC: AM=1.5, Irradiance 1000W/m², Module Temperature 25℃, Maximum Power Measurement Uncertainty ± 3%

Operating Parameters

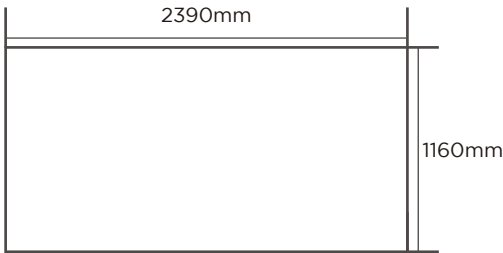
Operating Temperature (℃)	-40~+85
Maximum System Voltage (V)	1500V DC (IEC)
Fuse Current (A)	5A
Nominal Operating Temperature (℃)	42.3 ± 2
Fire Rating / Safety Class	Class C/Class II

Temperature Coefficients

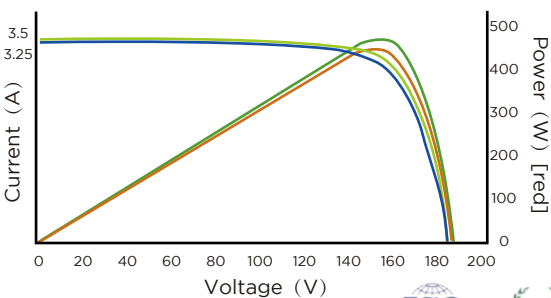
Temperature Coefficient of Pmax%/℃	-0.003
Temperature Coefficient of Voc%/℃	-0.001
Temperature Coefficient of Isc%/℃	0

Mechanical Performance

Module Mounting Dimension (mm)	2390*1160
Module Weight (kg)	4.330.3
Front Side Material	Polymer
Back Side Material	Aluminum / Polymer
Encapsulation Material	Butyl Rubber
Junction Box Protection Rating	IP68,1 Diode
Cable Specification (Length / Sectional Area)	2.5mm², +600mm/-600mm(Customizable)
Bending Radius (cm)	10
Maximum Static Load (Front Side, Pa)	2400
Maximum Static Load (Back Side, Pa)	1600



*Dimensions are customizable



*The images, data, and descriptions in this brochure are for design illustration and reference only. The company reserves the right to change product appearance, technical specifications, functional configuration, etc. Please refer to the final delivered product and the latest official announcements.