

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 ^{Max. Power} **W**
16.6 ^{Max. Efficiency} **%**



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



Stable Power Generation

High Low-light Response
Low Temperature Coefficient



Low-carbon & Eco-friendly

No Lead Leakage Risk
Low Manufacturing Energy
Consumption
Reduced Carbon Footprint

01 Outdoor Portable



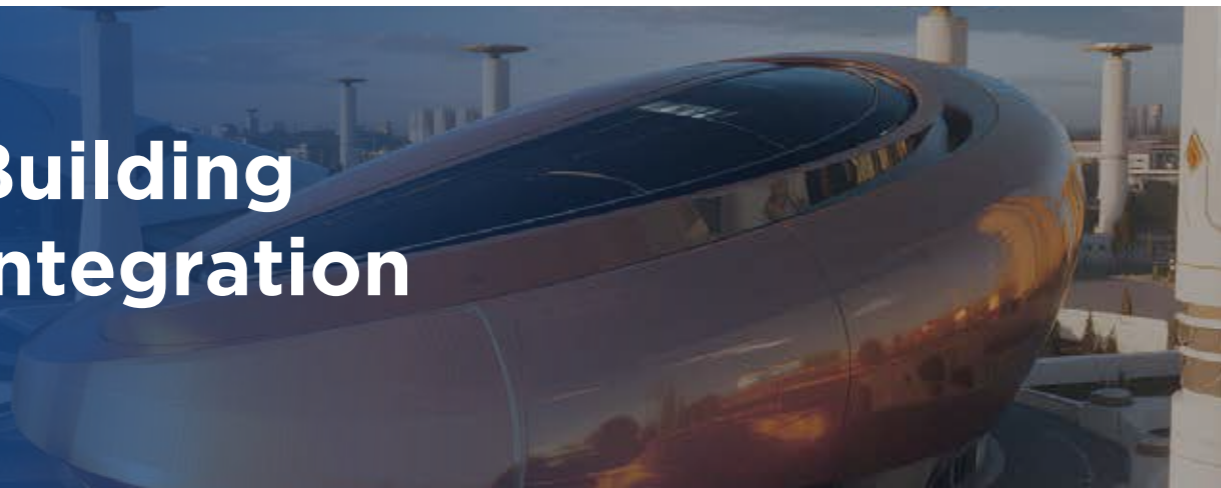
02 Vehicle Mounting



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 C, Maximum Power Measurement Uncertainty ± 3%

Operating Parameters

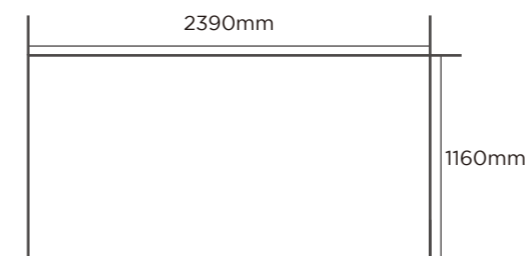
| | |
|--------------------------------------|------------------|
| Operating Temperature (°C) | -40-+85 |
| Maximum System Voltage (V) | 1500V DC (IEC) |
| Fuse Current (A) | 5A |
| Nominal Operating Temperature (°C) | 42.3 ± 2 |
| Fire Rating / Safety Class | Class C/Class II |

Temperature Coefficients

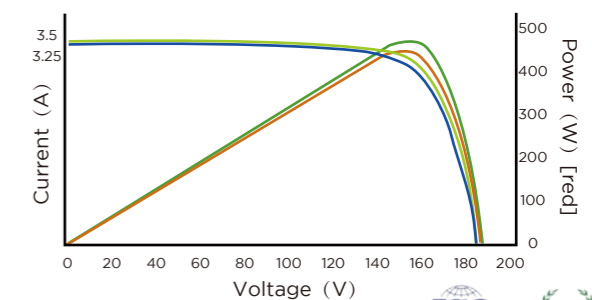
| | |
|-------------------------------------|--------|
| Temperature Coefficient of Pmax%/°C | -0.003 |
| Temperature Coefficient of Voc%/°C | -0.001 |
| Temperature Coefficient of Isc%/°C | 0 |

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) | 2.5mm ² , +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.