

High-efficiency photovoltaic module using silicon nitride coated multicrystalline silicon cells.

Performance

Rated power (P_{max})	65W
Nominal voltage	12V
Limited Warranty ¹	25 years

Configuration

BP 365U	Clear universal frame and standard J-box
---------	--

Electrical Characteristics²

	BP 365
Maximum power (P_{max}) ³	65W
Voltage at Pmax (V_{mp})	17.6V
Current at Pmax (I_{mp})	3.69A
Warranted minimum P_{max}	60W
Short-circuit current (I_{sc})	3.99A
Open-circuit voltage (V_{oc})	22.1V
Temperature coefficient of I_{sc}	(0.065±0.015)%/ °C
Temperature coefficient of V_{oc}	-(80±10)mV/°C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m ² ; wind 1m/s)	47±2°C
Maximum series fuse rating	20A
Maximum system voltage	600V (U.S. NEC & IEC 61215 rating) 1000V (TÜV Rheinland rating)



Mechanical Characteristics

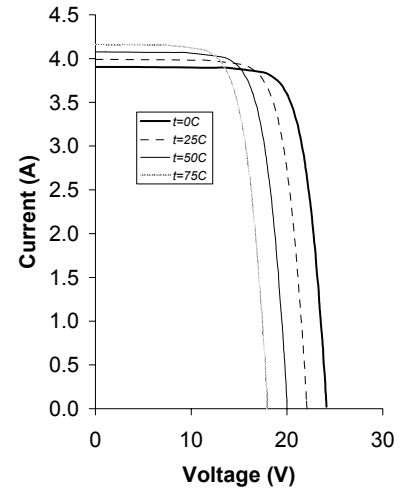
Dimensions	Length: 1111mm (43.7")	Width: 502mm (19.8")	Depth: 50mm (1.97")
Weight	7.2 kg (15.9 pounds)		
Solar Cells	36 cells (114mm x 114mm) in a 4x9 matrix connected in series		
Junction Box	U-Version junction box with 6-terminal connection block; IP 54, accepts PG 13.5, M20, ½ inch conduit, or cable fittings accepting 6-12mm diameter cable. Terminals accept 2.5 to 10mm ² (8 to 14 AWG) wire.		
Diodes	Schottky by-pass diodes included, every 18 cells		
Construction	Front: High-transmission 3mm (1/8 th inch) tempered glass; Back: Tedlar; Encapsulant: EVA		
Frame	Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver		

1. Module Warranty: 25-year limited warranty of 80% power output; 12-year limited warranty of 90% power output; 5-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.
2. These data represent the performance of typical BP 365 products, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)
3. During the stabilization process that occurs during the first few months of deployment, module power may decrease by up to 3% from typical P_{max} .

Quality and Safety

ESTI	Module power measurements calibrated to World Radiometric Reference through ESTI (European Solar Test Installation at Ispra, Italy)
CE	Manufactured in ISO 9001-certified factories; conforms to European Community Directives 89/33/EEC, 73/23/EEC, 93/68/EEC; certified to IEC 61215
TUV	Framed modules certified by TÜV Rheinland as Safety Class II (IEC 60364) equipment for use in systems up to 1000 VDC
UL	Listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)
FM	Approved by Factory Mutual Research in NEC Class 1, Division 2, Groups C & D hazardous locations (U)

BP 365 I-V Curves

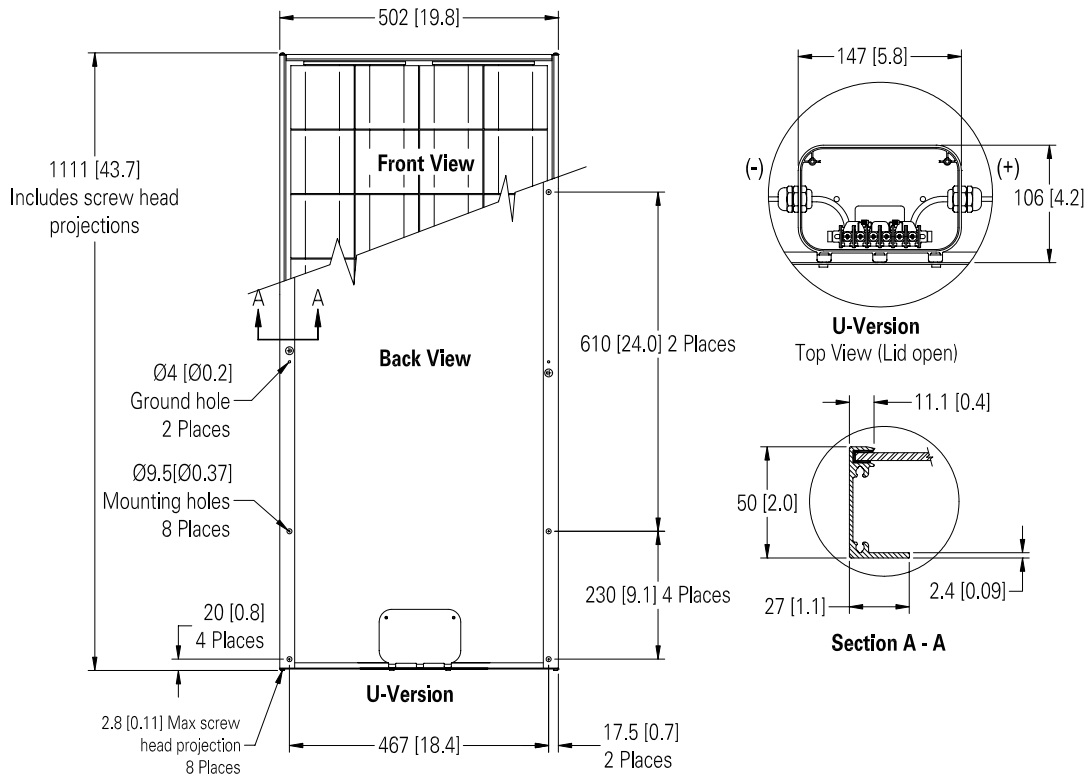


Qualification Test Parameters

Temperature cycling range	-40°C to +85°C (-40°F to 185°F)
Humidity freeze, damp heat	85% RH
Static load front and back (e.g. wind)	2,400 pa (50psf)
Front loading (e.g. snow)	5,400 pa (113psf)
Hailstone impact	25mm (1 inch) at 23 m/s (52mph)

Module Diagram

Dimensions in brackets are in inches. Un-bracketed dimensions are in millimeters. Overall tolerances $\pm 3\text{mm}$ (1/8")



Self-tapping grounding screw, instruction sheet, and warranty document included with each module.

Note: This publication summarizes product warranty and specifications, which are subject to change without notice. Additional information may be found on our web site: www.bpsolar.com

