

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

Performance

Rated power (P_{max}) 40W Nominal voltage 12V Limited Warranty₁ 25 years

Configuration

BP 340U Clear universal frame and standard J-box

Electrical Characteristics ²	BP 340
Maximum power (P _{max}) ³	40W
Voltage at Pmax (V _{mp})	17.3V
Current at Pmax (I _{mp})	2.31A
Warranted minimum P _{max}	36W
Short-circuit current (I _{sc})	2.54A
Open-circuit voltage (Voc)	21.8V
Temperature coefficient of I _{sc}	(0.065±0.015)%/°C
Temperature coefficient of Voc	-(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: 655mm (25.8") Width: 537mm (21.1") Depth: 50mm (1.97")					
Weight	5.75 kg (12.7 pounds)					
Solar Cells	36 cells (63mm x 125mm) in a 4x9 matrix connected in 2 parallel strings of 36 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 10mm² (8 to 14 AWG) wire.					
Diodes	(None)					
Construction	Front: High-transmission 3mm² (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.

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^{2.} These data represent the performance of typical BP 340 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	•	ents calibrated to World Radiometric Referei Installation at Ispra, Italy)	nce through					
C€	Manufactured in ISO 9001-certified factories; conforms to European Community Directives 89/33/EEC, 73/23/EEC, 93/68/EEC; certified to IEC 61215			BP 340 I-V Curves				
TÜV	Framed modules certified by TÜV Rheinland as Safety Class II (IEC 60364) equipment for use in systems up to 1000 VDC			.5				
(U _L)	Listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)			.0 -	t=0C - t=25C - t=50C - t=75C			
₹M	Approved by Factory Mutual Research in NEC Class 1, Division 2, Groups C & D hazardous locations			.5 -		1		
Temperature o	,	-40°C to +85°C (-40°F to 185°F)		.5 -		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Humidity freez	, I	85% RH	C	.0 —	1			
Static load from	nt and back (e.g. wind)	50psf (2400 pascals)		0	10	20	30	

Module Diagram

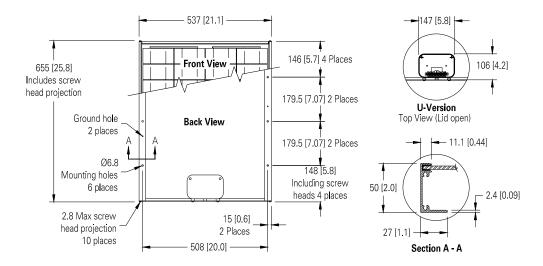
Hailstone impact

Front loading (e.g. snow)

Dimensions in brackets are in inches. Unbracketed dimensions are in millimeters. Overall tolerances ±3mm (1/8")

25mm (1 inch) at 23 m/s (52mph)

113psf (5400 pascals)



Included with each module: self-tapping grounding screw, instruction sheet, and warranty document.

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**



Voltage (V)

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