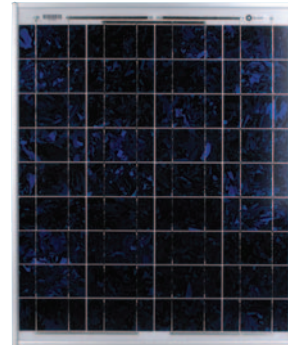


40 watt photovoltaic module

BP 340

The BP 340J is an advanced 40W photovoltaic module, using cells with SiN coating that addresses the needs of rural electrification for remote homes that do not have access to the utility grid and remote industrial applications such as telemetry and instrumentation systems. This product offers improved efficiency through the use of advanced polycrystalline cells and a 12V nominal power output, making it ideal for battery charging applications. It has proven performance at high temperatures and its robust design makes the product durable in the field and easy to install.



BP 340J

Performance

Rated power	40W
Module efficiency	11.3%
Nominal voltage	12V
Warranty	90% power output over 12 years. 80% power output over 25 years. Free from defects in materials and workmanship for 5 years.

Configuration

BP 340J	Clear universal frame and robust junction box
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Qualification test parameters

Temperature cycling range	-40°C to +85°C for 200 cycles
Damp heat test	85°C and 85% relative humidity for 1000h
Front and rear static load test (eg: wind)	2400 Pa
Front load test (eg: snow)	5400 Pa
Hailstone impact test	25mm hail at 23m/s from 1m distance

Quality and safety

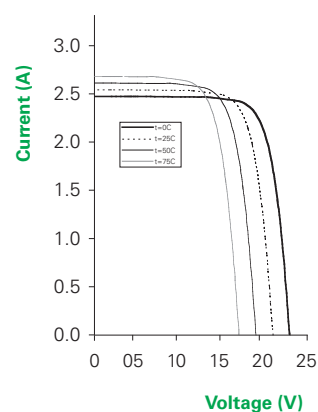
- Manufactured in ISO 9001 and ISO 14003 certified factories
- Conforms to European Community Directive 89/33/EEC, 73/23/EEC, 93/68/EEC
- Certified to IEC 61215

Module power measurements calibrated to World Radiometric Reference through ESTI (European Solar Test Installation at Ispra, Italy)

Framed modules listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)

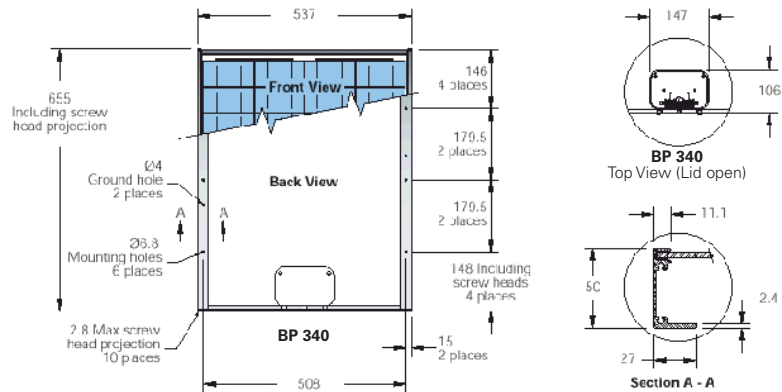
Approved by Factory Mutual Research in NEC Class 1, Division 2, Groups C & D hazardous locations

BP 340J



40 watt photovoltaic module BP 340

Module diagram



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

Typical electrical characteristics

BP 340J

Maximum power (P_{max}) ¹	40W
Warranted minimum power	36W
Voltage at P_{max} (V_{mp})	17.3V
Current at P_{max} (I_{mp})	2.31A
Short circuit current (I_{sc})	2.54A
Open circuit voltage (V_{oc})	21.8V
Temperature coefficient of I_{sc}	(0.065±0.015)%/°C
Temperature coefficient of V_{oc}	-(80±10)mV/°C
Temperature coefficient of P_{max}	-(0.5±0.05)%/°C
NOCT ²	47±2°C
Maximum series fuse rating	20A
Maximum system voltage	50V (IEC 61215 rating)

Mechanical characteristics

Dimensions (mm)	655 x 537 x 50 <small>(Overall tolerances +/-3mm)</small>
Weight (kg)	5.75
Frame	Clear anodised aluminium alloy type 6063T6. Colour: Silver universal frame.
Solar cells	36 cells (63mm x 125mm) configured geometrically for 2 parallel strings of 36 for a 4 x 9 matrix.
Junction box	IP65 junction box with 4 terminal screw protection connection block, accepts PG 13.5, M20, 13mm conduit, or cable fittings accepting 6-12mm diameter cable. Terminals accept 2.5 to 10mm ² (8 to 14 AWG) wire.
Construction	Front: High transmission 3mm tempered glass. Rear: White polyester; encapsulant: EVA.

1. Standard test conditions (STC), irradiance of 1000W/m² at an AM1.5G solar spectrum and a cell temperature of 25°C.

2. Normal Cell Operating Temperature (NOTC), air temperature of 20°C; irradiance 800W/m²; wind speed 1m/s.

This publication summarises product warranty and specifications which are subject to change without notice. For full terms and conditions of warranty, see BP Solar's warranty document. All solar modules are individually tested prior to shipment.

Printed on Monza Satin with 55% recycled paper content.

Your BP Solar representative:

