

225W Photovoltaic module

BP 3225T



BP Solar have been manufacturing solar wafers, cells and modules for more than 35 years. This experience has shown us that the way to optimise module life and electrical energy production is to attend to the minutest details in the design, manufacturing, process controls and testing. Our latest generation of 60 cell, Polycrystalline T Series solar modules offers the following benefits:



Long lasting, innovative frame design

Robust aluminium frame with rounded profile for greater handling comfort, nut secure feature for increased theft resistance proven and certified to withstand heavy snow load (5400Pa - 540kg/m²) even when end mounted



Flexible mounting whilst reducing soiling losses

Increased distance between cells and frame, and enhanced design to push the laminate to the front, ensures that dirt accumulation, even in landscape mounting, will not be shadowing cells, thus maximizing the energy production



More reliable, better cooling bypass diodes

Integrabus™ technology ensures reliable cable management whilst positioning the bypass diodes and junction box away from the cells ensuring cooler operation and greater energy production



Environmentally responsible

Lead free soldering and interconnections, halogen free cables complete with latching MC4 connectors and minimum packaging waste

Guaranteed to last

From one of the leading solar companies whose internal testing goes beyond international standards, backed by a 5-year product guarantee and 25-year power warranty













BP 3225T

bp solar

Electrical characteristics

	(1) STC 1000W/m ²	(2) NOCT 800W/m ²
Maximum Power (P max)	225W	162W
Voltage at P $_{max}$ (V $_{mpp}$)	29.1V	25.9V
Current at P max (Impp)	7.70A	6.16A
Short circuit current (I sc)	8.30A	6.72A
Open circuit voltage (V ∞)	36.6V	33.3V
Module efficiency	13.5%	
Tolerance	-3/+5%	
Nominal Voltage	20V	
Efficiency reduction at 200W/m ²	<5% reduction (efficiency 12.8%))
Limiting reverse current	8.30A	
Temperature coefficient of I sc	(0.065±0.015)%/C	
Temperature coefficient of V oc	-(0.36±0.05)%/C	
Temperature coefficient of P max	-(0.5±0.05)%/C	
(3) NOCT	47±2°C	
Maximum series fuse rating	20A	
Application class (according to IEC 61730:2007)	Class A (1000V)	
Maximum system voltage (U.S. NEC rating)	600V	
Values at Standard Test Conditions (STC): 1000W/m ² irradian 2: Values at 800W/m ² irradiance, Nominal Operation Cell Temper 3: Nominal Operation Cell Temperature: Module operation temper		
All solar modules are individually tested prior to shipment; an allo	wance is made within our factory measurement to	account for the typical

Mechanical characteristics

power degradation (LID effect) which occurs during the first few days of deployment.

Solar Cells	60 polycrystalline 6" silicon cells (156x156mm) in series	
Front cover	High transmission 3.2mm (1/8th in) glass	
Encapsulant	EVA	
Back cover	White polyester	
Frame	Silver anodized aluminium (Universal II)	
Diodes	Integrabus™ with 6 Schottky diodes	
Junction Box	Potted (IP 67); certified to meet UL 1703 flammability test	
Output cables	$\label{eq:model} 4mm^2\ cable\ with\ latching\ MC4\ connectors$ $\ Asymetrical\ cable\ lengths: (+)1250mm\ (49.21in)\ /\ ()800mm\ (31.50in)$	
Dimensions	1667x1000x50mm / 65.63x39.37x1.97in	
Weight	19.4kg / 42.8lbs	
All dimensional tolerances within ±0.1% unless otherwise stated.		

Warranty

- Free from defects in materials and workmanship for 5 years
- 90% power output over 12 years
- 80% power output over 25 years

Certification

Certified according to the extended version of the IEC 61215:2005 (Crystalline silicon terrestrial photovoltaic modules - Design qualification and type approval)

Certified according to IEC 61730-1 and IEC 61730-2. (Photovoltaic module safety qualification, requirements for construction and testing)

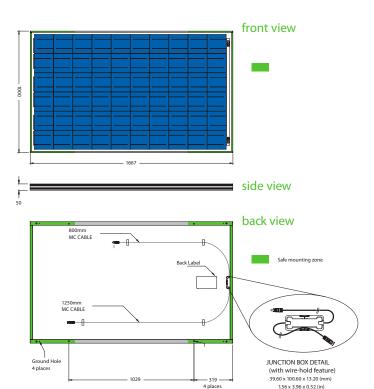
Listed to UL 1703 Standard for Safety by Intertek ETL (Class C fire rating)

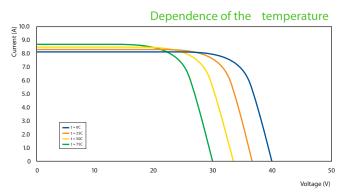
Manufactured in ISO 9001 and ISO 14001 certified factories

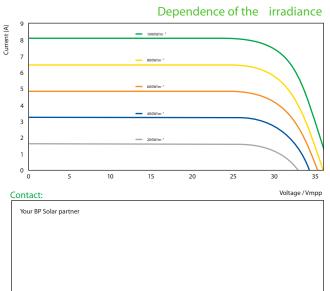
Module electrical measurements are calibrated to World radiometric reference via third party international laboratories

This data sheet complies with the EN 50380 requirements.

This rubble atlon cummaries product warranty and specifications which are subject to change without notice.







Find more information in: www.bpsolar.com



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For more information on this product and our full-range of solutions, contact Ameresco at **1-855-43-SOLAR** PS-3614-01-0/11 02 00.0