

NanoPV-B-300W



17.6% Average cell efficiency up to 17.6%
Excellent optical performance

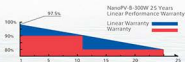
±1% Positive tolerance 0⁺5W
Reliability for output performance

12 years 12 years for product
25 years linear Warranty

Grid Residential roof top systems
On/Off-grid commercial systems
On/Off-grid utility systems

3rd TUV Salt corrosion resistance test
TUV Ammonia corrosion resistance test
5400Pa for Snow Load Test
2400Pa for Wind Load Test

IEC IEC 61215 (Edition 2005), IEC 61730,
ISO9001:2008, ISO14001:2004



Production Process



Wafer Production



Cell Production



Module Production



Module

About NanoPV-B-300W

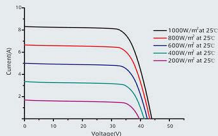
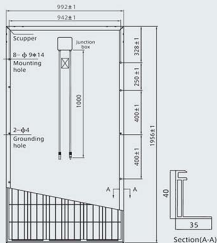
NanoPV-B-300W one of the world's top PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continuous improvement. Integrating with Electrical Vehicles and Battery Energy Storage technology makes NanoPV-B-300W the world-leading solution provider from energy generating to consumption and storage.

New Technology



NES

A high technology that is widely used in NanoPV Photovoltaic products, increasing the average cell efficiency up to 17.6%



Mechanical Specifications

Cell	Polycrystalline Silicon solar cells
	156mm * 156 mm / 6 inch
No. of Cells	72 (6 * 12) pcses
Dimension of Module	1956 mm * 992 mm * 40 mm / 77.0 inch * 39.1 inch * 1.6 inch
Weight	22.4kg / 49.38 lbs
Front Glass	3.2 mm tempered glass with ARC
Frame	Anodized aluminum alloy
Junction Box	IP65
Plug Connector	IP67
Bypass-Diodes	6 pcses / 3 pcses
Type of Connector	Mc4 or MC4-compatible
Cable Section Area	4 mm ² / 0.0062 Sq in
Cable Length	2 * 1000 mm / 2 * 39.4 inch

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Short-Circuit Current Temperature Coefficient	0.059%/°C
Open-Circuit Voltage Temperature Coefficient	-0.32%/°C
Peak Power Temperature Coefficient	-0.43%/°C

Package Information

Package	40' HC
Pcs / Pallet	25
Pallet / Container	22
Pcs / Container	550

NanoPV-B-300W Series Electrical Specification

STC

Item	Module	BYD 300P6C-36
Open Circuit Voltage (Voc)		45.19V
Maximum Operating Voltage (Vmp)		35.97V
Short Circuit Current (Isc)		8.83 A
Maximum Operating Current (Imp)		8.34 A
Maximum Power in STC (Pmax)		300 Wp
Module Efficiency		15.46%
Operating Temperature		-40°C ~ 85°C
Max. Fuse Current Rating		15 A
Maximum System Voltage		1000 VDC(IEC) / 600 VDC (UL)
Power Tolerance		0~5W
Application Classes		Class A

STC: IRRADIANCE 1000W/m², Module Temperature 25°C, AM=1.5

Avg. efficiency reduction of 4.5% at 200W/m²

NOCT

Item	Module	BYD 300P6C-36
Open Circuit Voltage (Voc)		41.62 V
Maximum Operating Voltage (Vmp)		32.97V
Short Circuit Current (Isc)		7.14 A
Maximum Operating Current (Imp)		6.57 A
Maximum Power in NOCT (Pmax)		216.6 Wp

NOCT: open circuit module operation temperature at 800W/m² irradiance, 20° C ambient temperature, 1m/s wind speed.