

Made in  
Romania

# Polycrystalline photovoltaic panel WT 300P16



WATTROM  
BE FOTOVOLTAIC

## WT 300P16

is a robust solar panel, with 72 solar cells. The module can be used for on/off-grid solar applications.



## METICULOUS DESIGN

and the newest production technology ensure a high-yield and long-term performance for every module produced.



## QUALITY CONTROL

rigorous realised along whole technological flow guarantees that Wattrom solar panels ensure the highest quality standards possible.



## QUALITY CERTIFICATE

ISO 9001:2008

ISO 14001:2004

TUV InterCert Saar



# Model WT 300P16



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## Electrical Characteristics

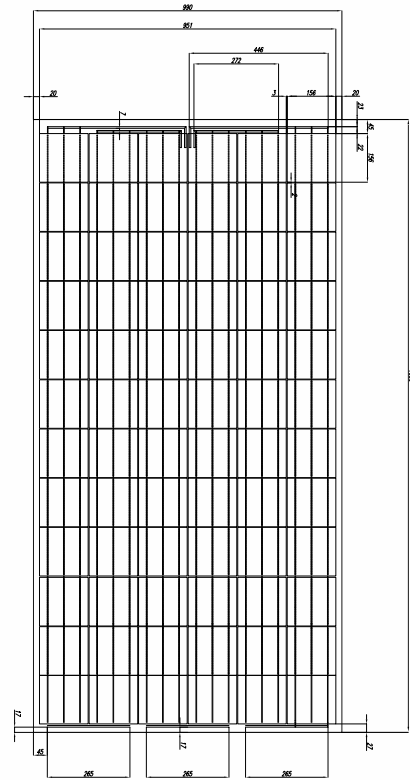
Rated Power at STC ( $P_{max}$ )	Maximum Power Voltage ( $V_{mp}$ )	Maximum Power Current ( $I_{mp}$ )	Open Circuit Voltage ( $V_{oc}$ )	Short Circuit Current ( $I_{sc}$ )	Encapsulated Cell Efficiency ( $\eta_c$ %)	Module Efficiency (%)	Power Tolerance (%)
304.99W	37.94V	8.389A	45.576V	8.923A	18.2%	16.5%	1.6%

Standard Test Conditions: AM=1.5, Irradiance 1000 W/m<sup>2</sup>, Module temperature 25°C

## Mechanical Characteristics

Solar Cells	Polycrystalline 156mm x 156mm (6 inches)
In series cells	72 pcs
External dimensions	1958mm x 998mm x 38mm
Weight	24.6kg
Protective Glass	4.0mm, tempered glass, low iron, prismatic design
Frame	Anodized aluminium alloy
Jonction Box	Tyco Solarlok Z - Rail, Slim: 115mm x110mm x23mm
Ingress Protection	IP65
Output Cables	4.0mm <sup>2</sup> , symetrical lengths, 1000mm
Connector	MC4 Compatible
Maximum wind load	200km/h
Maximum snow load	550kg/m <sup>2</sup>
Hallstone impact test	80km/h for 25mm ice ball
Warranty	25 years

\* Used in nominal operating conditions



## Temperature Characteristics

NOCT (Nominal Operating Cell Temperature)	Current Temperature Coefficient (%/k)	Voltage Temperature Coefficient (%/k)	Power Temperature Coefficient (%/k)
45 +/- 2°C	0.0473	-0.3166	-0.397

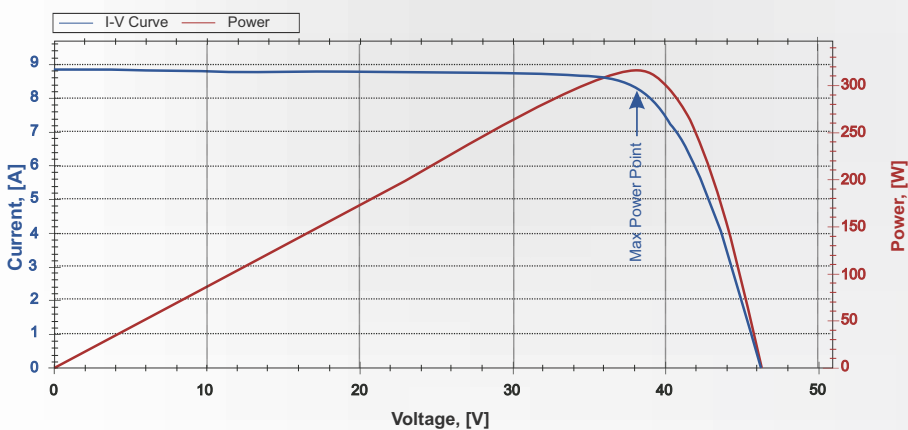
## Operating Parameters

Operating Temperature	from -40 to 85°C
Deposit Temperature	from -40 to 85°C
Maximum System Voltage	1000VDC(IEC)
Maximum Series Fuse Rating	20A

## Weak light performance

Intensity (W/m <sup>2</sup> )	1000	800	500	300	200
$V_{mpp}$	1.000	0.997	0.976	0.954	0.934
$I_{mpp}$	1.000	0.900	0.498	0.295	0.197

I-V MEASUREMENT



## Packing Configuration

Modules/Pallet	26 pcs
Maximum Pallets/ Container (40` GP)	26 pcs
Maximum Modules/ Container (40` GP)	676 pcs

\* Pallet dimensions: 1000 x 2000mm  
\* Pallet height: 1200mm  
\* Pallet weight: 655kg