

# WhisperPower Solar module



Datasheet



## WhisperSolar 310 WP

- All-purpose solar module
- All-black color scheme
- Premium quality monocrystalline
- Power output range 310WP
- For 12, 24 & 48 VDC
- Mechanical load up to 5400 Pa
- Low weight
- Module efficiency up to 19,05%
- Positive power tolerance -0/+4,9W
- IEC EN certified
- PID test passed
- Made in Europe



Generating Confidence



Generating Confidence

## WHISPERSOLAR - 310WP

60110439

### MAIN SPECIFICATIONS

Peak power $P_{MPP}$	310 W
Peak power tolerance	-0/+4,9 W
Short circuit current $I_{SC}$	9,81
Open circuit voltage $V_{OC}$	40,38
Rated current $I_{MPP}$	9,36
Rated voltage $V_{MPP}$	33,28
Current and voltage tolerance [%]	±3
Module efficiency [%]	19,05

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1,5 g spectrum according to EN 60904-3  
Average relative efficiency reduction of 3,4% at 200W/m<sup>2</sup> according to EN 60904-1

### ELECTRICAL PARAMETERS AT NOMINAL CELL TEMPERATURE (NOCT)

Peak power P	226,7
Peak power tolerance	-0/+4,9
Short circuit current	7,88
Open circuit voltage	37,1
Rated current	7,48
Rated voltage	30,3

NOCT: module operating parameters at 800 W/m<sup>2</sup> irradiance, 20° C ambient temperature, 1 m/s wind speed

### MECHANICAL DATA

Dimensions (H x H x D) [mm]	1640 x 992 x 35
Weight [kg]	18,0
Solar cells	60 cells, monocrystalline Si (PERC), 156 x 156 mm +/- 1 mm
Cells encapsulation	Ethylene vinyl acetate (EVA)
Front	Solar glass, 3,2 mm
Back	Composite polyester film black Black anodized aluminium frame with twin-wall profile and drainage holes
Junction box	IP67 with 3 Bypass diodes
Cable and connectors	Solar cable 4 mm <sup>2</sup> , length 1200 mm

### OPERATING CONDITIONS

Temperature range [°C]	-40 to +85
Maximum system voltage	1000
Max. series fuse rating	15A
Limiting reverse current	15A
Maximum surface load	5400 Pa (Snow load)
Resistance against hail	Max. diameter of 25mm with impact speed 23 m/s

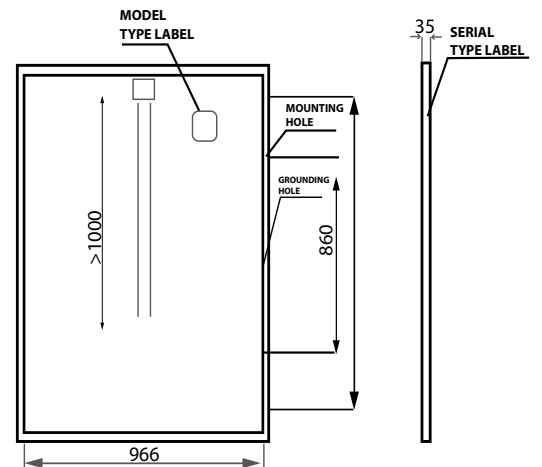
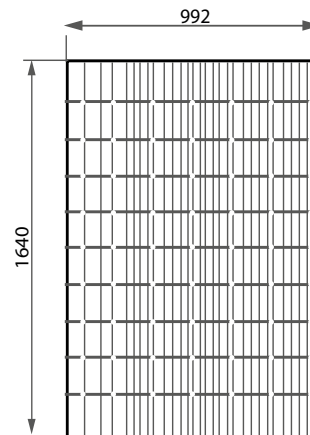
### THERMAL CHARACTERISTICS

Temperature coefficient of $P_{MPP}$ [%/K]	-0,42
Temperature coefficient of $I_{SC}$ [%/K]	0,05
Temperature coefficient of $V_{OC}$ [%/K]	-0,33

### Accessoires WP-Solar 310 wp

Article Nr.	Article
60111421	WP-Solar Bracket supports 680mm (set of 2 pcs.)
60111422	WP-Solar Corner supports (set of 4 pcs.)
60111425	WP-Solar Cable entry
60111440	WP-Solar Bracket assembly adhesive
60111441	WP-Solar Bracket assembly adhesive activator
60111430	WP-Suntrack DUO - 50A (12 V)
60111431	WP-Suntrack DUO - 30A (24 V)
60111436	WP-Suntrack 50 A

### DIMENSIONS:



### ACCESSOIRES:

