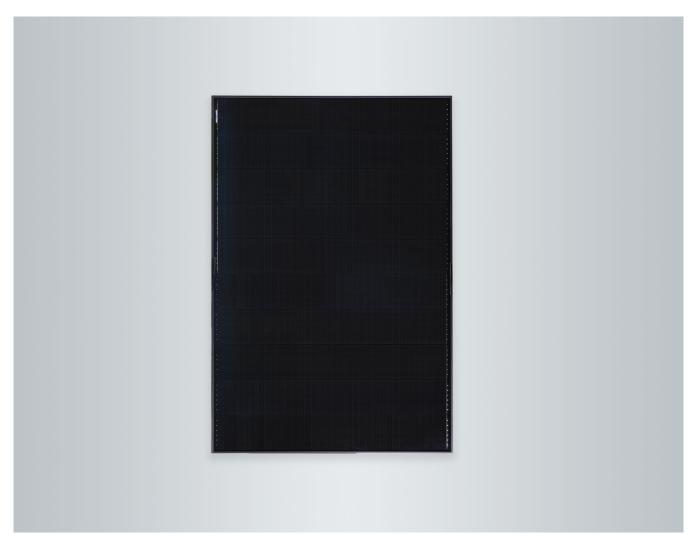


## **VITOVOLT 300**

Photovoltaic modules Type M395WK, M400WK, type M405WK Allblack

# **Datasheet**





# VITOVOLT 300 Type M395WK, M400WK, M405WK

Monocrystalline photovoltaic modules in **allblack** version with  $395/400/405~W_P$  rated output for generating power from solar energy

- Module efficiency up to 20.66 %
- Shingled PERC cell technology
- Corrosion-resistant aluminium frame with excellent mechanical load bearing capacity for high snow (5400 Pa) and wind/suction (2400 Pa) loads
- Additional output of up to 5 W<sub>p</sub> due to positive output tolerance
- 3.2 mm anti-reflective glass for high solar yields
- High operational reliability: 2 bypass diode bridges for dependable operation
- Tested for resistance to salt spray and ammonia, consequently suitable for use in coastal regions and areas with intensive agricultural operations
- Certified to IEC 61215, IEC 61730, IEC 61701 and IEC 62716 to guarantee compliance with international quality standards.

# **Specification**

Vitovolt 300	Тур	M395WK	M400WK	M405WK
	е			
Performance data under				
STC				
Rated output P <sub>max.</sub>	$W_P$	395	400	405
Output tolerance	W	0/+5	0/+5	0/+5
MPP voltage U <sub>mpp</sub>	V	38.5	38.6	38.7
MPP current I <sub>mpp</sub>	Α	10.26	10.36	10.47
Open circuit voltage U <sub>oc</sub>	V	46.3	46.4	46.5
Short circuit current I <sub>sc</sub>	Α	10.92	10.97	11.02
Module efficiency	%	20.15	20.41	20.66
Temperature coeffi-				
cients				
Output	%/K	-0.34	-0.34	-0.34
Open circuit voltage	%/K	-0.27	-0.27	-0.27
Short circuit current	%/K	0.04	0.04	0.04

Vitovolt 300	Тур	M395WK	M400WK	M405WK
	е			
Cell temperature at	°C	42.3	42.3	42.3
NOCT				
Max. system voltage	V	1500	1500	1500
Reverse current resist-	Α	20	20	20
ance				

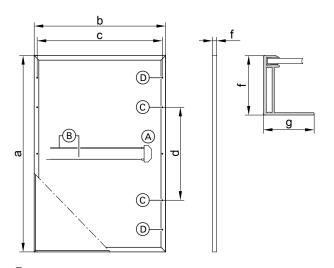
Insolation 1000 W/m<sup>2</sup>, cell temperature 25 °C, air mass AM 1.5, measuring tolerance ±3 % (P<sub>max</sub>)

MPP Maximum power point (maximum output under STC)

NOCT ■ Insolation 800 W/m<sup>2</sup>

- Ambient temperature 20 °C
- Air mass AM 1.5
- Wind speed 1 m/s
- Measuring tolerance ±5 % (P<sub>max</sub>)

#### **Connection dimensions**



- Junction box
- B Connecting cables
- 4 drilled holes 9 x 14 mm
- 4 holes for equipotential bonding, Ø 6 mm

а	mm	1719
b	mm	1140
С	mm	1090
d	mm	1031
f	mm	30
a	mm	30

Monocrystalline PERC silicon cell Type of cell

Number of cells 340 (shingled)

Ethylene vinyl acetate (EVA) Cell embedding

Frame Anodised aluminium alloy, black/silver Front glass

Thermally toughened safety glass 3.2 mm with

anti-reflective coating

Weight 22 kg 5400 Pa/2400 Pa

Max. load due to

pressure/suction

Junction box IP 67, 2 diodes

Connection Cables 1.25 m long, with 4 mm<sup>2</sup> cross-section

and Multi-Contact (MC4)

Protection class Ш Application class Α

Shipping unit 36 pce per pallet

#### Guarantee

#### Product guarantee

5 years: Viessmann warranty

15 years: Viessmann product guarantee

### Output guarantee

Min. 97 % after one year Min. 84.8 % linear after 25 years

Product and output guarantee in accordance with the guarantee conditions of Viessmann Climate Solutions SE Guarantee conditions: www.vibooks.de.

#### **Tested quality**

Certified to IEC 61215, IEC 61730, IEC 61701 and IEC 62716. Manufactured in factories certified to ISO 9001 and 14001. CE designation according to current EC directives.

Subject to technical modifications.

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Viessmann Climate Solutions SE