

BLACKLINE BL

Solar panels



WATTSTUNDE

BLACKLINE – Panelseries
80 W • 110 W • 160 W • 200 W • 250 W



WATTSTUNDE solar panels from the BLACKLINE series are ideal for all those who rely on the highest quality and the latest technology. It is based on the innovative shingle cell technology. The unique parallel structure of narrow cell strips ensures unhindered energy flow. They are robust and durable due to hollow-chamber profile frames and anti-reflective glass.

- Shingle solar cells
- Cell efficiency over 20 %
- Anti-reflective glass with lotus effect
- Weatherproof junction box (IP65) and MC4 compatibility
- Salt water resistant aluminium profile frame
- Bypass diodes integrated in junction box

Technical changes, errors and printing mistakes are reserved stand 01.2022

DATASHEET



WATTSTUNDE

Typ	WS80BL	WS110BL	WS160BL	WS200BL	WS250BL
Article no.	101-17080	101-17100	101-17160	101-30200	101-30250
Nominal power (Pmax)	80 Wp	110 Wp	160 Wp	200 Wp	250 Wp
Max. energy output (summer)	400 Wh/d	550 Wh/d	800 Wh/d	1000 Wh/d	1250 Wh/d
Max. power voltage (Umpp)	27,50 V	19,00 V	28,00 V	28,49 V	28,49 V
Max. power current (Impp)	2,89 A	5,77 A	5,71 A	6,99 A	8,55 A
Open circuit voltage (Uoc)	33,75 V	22,80 V	33,90 V	34,23 V	34,23 V
Short circuit current (Isc)	2,99 A	5,94 A	5,92 A	7,46 A	8,99 A
Bypass-diode			integrated		
Cell efficiency			≥ 20 %		
Max. working temperature			-40 °C bis + 85 °C		
Connection cable			90 cm + MC4 Connector		
Values according to STC-conditions (E= 1000W/m², Tc=25 °C, AM=1,5)					

Dimension

Weight	5,0 kg	7,2 kg	10,0 kg	11,5 kg	13,0 kg
Dimensions mm (L x B x H)	1530 x 265 x 35	1031 x 530 x 35	1530 x 530 x 35	1530 x 658 x 35	1546 x 785 x 35

Basic Data Module

Cell material	Shingle mono cells
Frame	Aluminium black anodized
Junction box	IP 65
Product warranty	5 years
Warranty of performance	25 years (on 80 % of performance)
Temperature coefficient (Isc)	+ 0,03 % / K
Temperature coefficient (Uoc)	- 0,31 % / K
Temperature coefficient (Pmpp)	- 0,43 % / K

Technical changes, errors and printing mistakes are reserved stand 01.2022