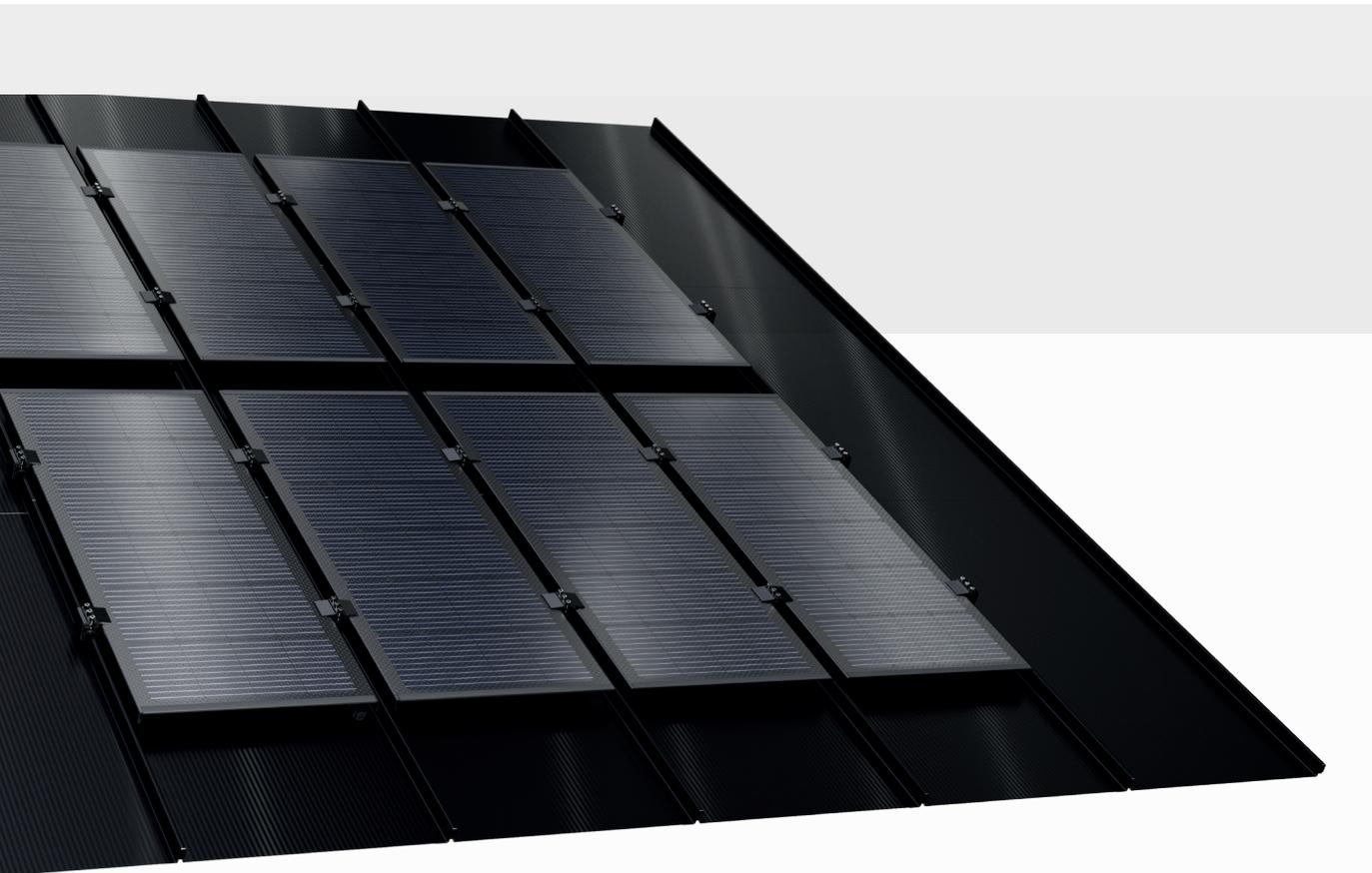




PRODUCT DATA SHEET

PHOTOVOLTAIC MODULES

PBC PANELS





Electrical and temperature characteristics

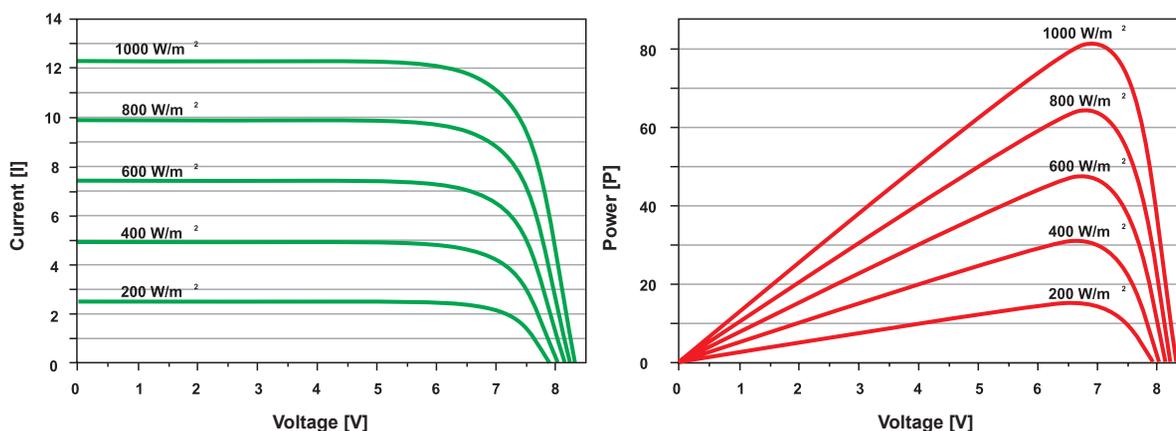
	PBC 475/440	PBC 495/460	PBC 509/474	PBC 521/488
Class of protection against electrical shock	II			
PV module maximum power P_{max} (STC)	83 W			
Current at short-circuit I_{sc} (STC)	12,90 A			
Voltage at open-circuit V_{oc} (STC)	8,33 V			
Maximum system voltage V_{sys} (STC)	1000 V			
Tolerance P_{max} , V_{oc} , I_{sc}	± 3%			
Voltage at the maximum power point V_{mpp} (STC)	6,8 V			
Current at the maximum power point I_{mpp} (STC)	12,17 A			
Power drop from year 2 to year 25	0,55 %/year			
Maximum overcurrent protection rating	20 A			
Environmental conditions — temperature range	from -40 °C to +40 °C			
Temperature coefficient for short-circuit current	0,04%/K			
Temperature coefficient for voltage at open-circuit	-0,36%/K			
Temperature coefficient for maximum power	-0,38%/K			
Permissible load due to wind / snow	1600 Pa			

Standard test conditions (STC): 1000 W/m², (25±2) °C, AM 1,5

Under normal conditions, a photovoltaic module is likely to experience conditions that produce higher current and/or voltage than reported at standard test conditions. Accordingly, the values of I_{sc} and V_{oc} , marked on this PV module should be multiplied by a factor of 1,25 when determining component voltage ratings, conductor current ratings, and size of controls (e.g. inverter) connected to the PV output.



Current-voltage and power-voltage curves of PBC Panels





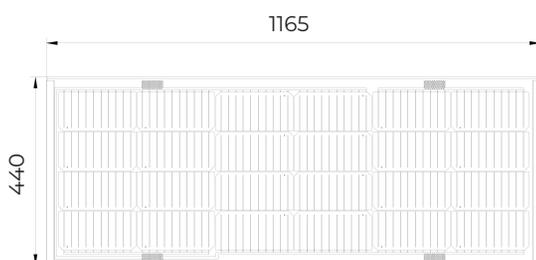
General characteristics

	PBC 475/440	PBC 495/460	PBC 509/474	PBC 521/488
Dimensions	1165x440x20 mm	1165x460x20 mm	1165x474x20 mm	1165x488x20 mm
Weight	3,1 kg	3,3 kg	3,5 kg	3,6 kg
Number of cells per module	24			
Cell class	A			
Cell type	PERC half-cut			
Number of bus bars	10BB			
System	Glass-free			
Laminate thickness	3 mm			
Front layer	ETFE MATT anti-glare film			
Background colour	Black			
Junction boxes	Off-grid, IP 68 rating			
Connection	MC4 + 2 bypass diodes			
Output cables	1x4.0 mm ² photovoltaic cables (+): 500 mm, (-): 500 mm			
Compliance with standards	PN-EN IEC 61730, PN-EN IEC 61215			
Place of manufacture	Europe			

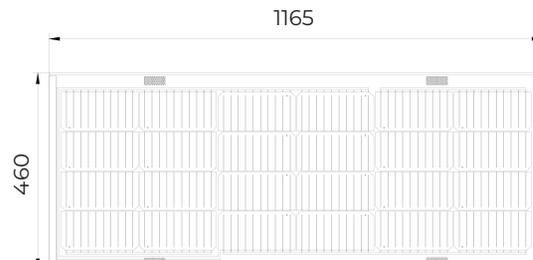


Technical drawing

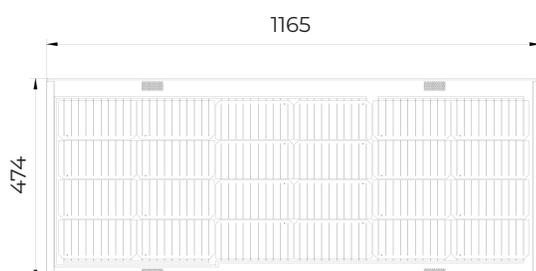
PBC 475/440



PBC 495/460



PBC 509/474



PBC 521/488

