

Length x Width	1200 mm x 600 mm
Thickness	6.9 mm (21.0 including junction box)
Weight	12.0 kg
Front Cover	3.2 mm glass
Back Cover	3.2 mm glass
Cell Type	Cadmium telluride [CdTe]
Frame	none
Junction Box	Protection Class IP65
By-Pass Diode	none
Cable Type	Solar cable 2.5mm ²
Cable Length	650 mm (+Cable), 850 mm (-Cable)
Connector	Multicontact MC 4

ELECTRICAL CHARACTERISTICS

POWER CLASS			CX4 92/3	CX4 95/3	CX4 97/3	CX4 100/3	CX4 102/3	CX4 105/3
Nominal Power [+10% / -5%]	P_{MPP}	[W]	92.5	95.0	97.5	100.0	102.5	105.0
Current at max. Power	I_{MPP}	[A]	1.34	1.36	1.37	1.38	1.39	1.40
Voltage at max. Power	V_{MPP}	[V]	68.9	70.1	71.4	72.6	73.9	75.1
Short Circuit Current	I_{SC}	[A]	1.51	1.52	1.52	1.53	1.53	1.53
Open Circuit Voltage	V_{OC}	[V]	89.8	90.6	91.3	92.1	92.9	93.6

Performance at normal operating cell temperature (NOCT: 800 W/m², 45 ±2°C, AM 1.5 Spectrum)

POWER CLASS			CX4 92/3	CX4 95/3	CX4 97/3	CX4 100/3	CX4 102/3	CX4 105/3
Nominal Power	P_{MPP}	[W]	71.0	73.0	74.9	76.7	78.7	80.6
Current at max. Power	I_{MPP}	[A]	1.08	1.09	1.10	1.11	1.12	1.13
Voltage at max. Power	V_{MPP}	[V]	66.0	67.2	68.4	69.6	70.8	72.0
Short Circuit Current	I_{SC}	[A]	1.22	1.22	1.22	1.23	1.23	1.23
Open Circuit Voltage	V_{OC}	[V]	86.0	86.8	87.5	88.2	89.0	89.7

Performance at low irradiance

The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (both at 25°C and AM 1.5 spectrum) on request.

Temperature coefficients (at 1000W/m², AM 1.5 Spectrum)

Temperature I_{SC}	α	[%/K]	+ 0.03
Temperature V_{OC}	β	[%/K]	-0.21
Temperature P_{MPP}	γ	[%/K]	-0.20

Properties for system design (IEC)

Maximum System Voltage	V_{SYS}	[V]	1000
Maximum Reverse Current	I_R	[A]	2.5
Wind / Snow Load	p	[Pa]	2400
Safety Class			II
Fire Rating			C

The power classes are defined by sorting of power classes (+2.5W/0W) according to measured P_{MPP} under STC. I_{MPP} , V_{MPP} , I_{SC} , V_{OC} are within ±10% of the indicated values under STC. Valid indoor measurement of STC performance is obtained by pretreating the module before measurement. For more information PAS-11-05-0203-EN.

Technical Data*

DESCRIPTION	
Model	N-G1025E105
Cell type	CIGS
Usage	Outside

VALUES CORRESPOND TO 1000W/M ² , AM 1.5 AND 25° C (STC)	
Rated power [W]	P _{MPP} 105.00
Rated voltage [V]	V _{MPP} 80.80
Rated current [A]	I _{MPP} 1.30
Open circuit voltage [V]	U _L 101.90
Short circuit current [A]	I _{SC} 1.41
Open circuit voltage at -10° C [V]	112.00

SYSTEM DESIGN CHARACTERISTICS	
Maximum system voltage [V]	1000
Reverse current load [A]	I _R 4
Power tolerance [W]	-0/+5
Module operating temperature [°C]	-40/+85
Maximum surface load [N/m ²]	2400

NOCT (NOMINAL OPERATING CELL TEMPERATURE)	
Values correspond to I=800W/m ² , Tu=20°C, Wind speed Vw=1m/s (NOCT) [°C]	47±3

TEMPERATURE COEFFICIENT	
Temperature coefficient open circuit voltage [%/°C]	-0.29
Temperature coefficient rated power [%/°C]	-0.36
Temperature coefficient rated current [%/°C]	0.05

MECHANICAL CHARACTERISTICS	
Length [mm]	1200
Width [mm]	600
Module height (with junction box, cable etc.) [mm]	26
Bond height [mm]	7
Cover glass height [mm]	3.2
Weight [kg]	12

MODULE ASSEMBLY	
Cover glass	Heat-strengthened anti-reflecting coated glass
Framing	without
Electrical connector	HC4
Junction box	Hirschmann

* Sample module data sheet. Product-specific parameters depend on module design and module system.

