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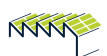
CDTE THIN FILM SOLAR MODULE CX3

The Calyxo CX series is a series of cost-efficient high performance modules. Based on innovative and patented CdTe thin film solar technology, the solar modules are designed to provide a significant reduction in the overall costs of electricity generation.

APPLICATION



RESIDENTIAL ROOFTOP
INSTALLATION



COMMERCIAL AND INDUSTRIAL
INSTALLATION



ROOF-PARALLEL AND FLAT-ROOF
INSTALLATION



GROUND MOUNTED
INSTALLATION

THE ALLROUNDER

- 1200 x 600 mm module area
- Low temperature coefficients
- High performance ratio
- Positive sorting +2.5 W / -0 W
- Mounting options for every inclination - from roof top to ground mounted

WARRANTY

- 5-years product warranty
- 25-years performance warranty*
- Free module recycling through membership in the PV Cycle Association**

MECHANICAL SPECIFICATION		TECHNICAL DRAWING
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 / Cadmium sulfide [CdTe/CdS]	
Frame	None	
Junction Box	Protection Class IP65	
By-Pass Diode	None	
Cable Length	650 mm (+Cable), 850 mm (-Cable)	
Cable Type	Solar cable 1.5mm ²	
Connector	Y-Sol4	

ELECTRICAL CHARACTERISTICS

Performance at standard test conditions (STC: 1000W/m², 25°C, AM 1.5 Spectrum)¹

POWER CLASS	CX		62	65	67	70	72
Nominal Power (±5%)	P _{MPP}	[W]	62.5	65.0	67.5	70.0	72.5
Current at max. Power	I _{MPP}	[A]	1.45	1.50	1.54	1.56	1.60
Voltage at max. Power	V _{MPP}	[V]	42.7	43.4	43.9	44.9	45.4
Short Circuit Current	I _{SC}	[A]	1.77	1.78	1.79	1.80	1.82
Open Circuit Voltage	V _{OC}	[V]	60.4	60.6	60.9	61.0	61.3

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

Power Class	CX		62	65	67	70	72
Nominal Power	P _{MPP}	[W]	47.5	49.4	51.3	53.2	55.1
Current at maximum Power	I _{MPP}	[A]	1.2	1.22	1.25	1.26	1.27
Voltage at maximum Power	V _{MPP}	[V]	40.2	41.0	41.6	42.6	43.1
Short Circuit Current	I _{SC}	[A]	1.43	1.44	1.45	1.46	1.47
Open Circuit Voltage	V _{OC}	[V]	57.3	57.6	57.8	58.0	58.2

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/m ² , AM 1.5 Spectrum)				Properties for system design			
Temperature Coefficients of I _{SC}	α	[%/K]	+0.02	Maximum System Voltage	V _{sys}	[V]	1000 (IEC) / 600 (UL1703)
Temperature Coefficients of V _{OC}	β	[%/K]	-0.24	Maximum Reverse Current	I _R	[A]	5.0
Temperature Coefficients of P _{MPP}	γ	[%/K]	-0.25	Wind / Snow Load	p	[Pa]	2400
Safety Class							II
Fire Rating							C

¹⁾The power classes are defined by positive sorting (+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 with 1 hour light soak (at approx. 1000W/m² in open circuit) followed by cool down to 25°C.

YOUR DIRECT CONTACT TO THE SUN

QUALIFICATIONS AND CERTIFICATES

IEC 61646; IEC 61730 Application Class A; DIN EN ISO 9001:2008; DIN EN ISO 14001:2004; PVCycle; CE-Mark; Safety Class II; CEC Australia; MCS (in final testing); UL 1703 (pending)



calyxo

CALYXO GMBH
OT Thalheim, Sonnenallee 1a
06766 Bitterfeld-Wolfen, Germany

TEL +49 (0)3494 368 980-101
FAX +49 (0)3494 368 980-111

EMAIL calyxo@calyxo.com
WEB www.calyxo.com

Note:
Installation instructions must be followed.
See the installation and operating manual or contact the technical service for further information on approved installation and use of the product.
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