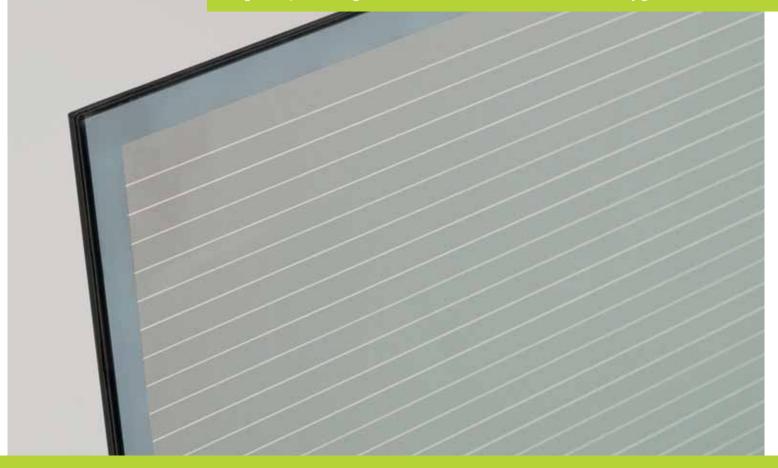


Original size

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

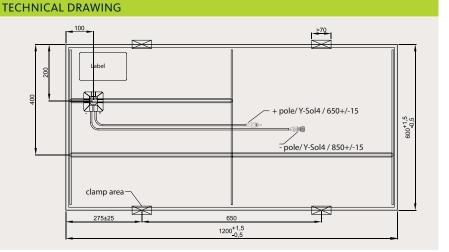
THE ALLROUNDER

- 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

- 10-years product warranty
- 25-years performance warranty*
- Free module recycling through membership in the PV Cycle Association[™]

MECHANICAL SPECIFICATION Length x Width 1200 mm x 600 mm Thickness 6.9 mm (21.0 including junction box) Weight 12.0 kg 3.2 mm glass Front Cover Back Cover 3.2 mm glass Cadmium telluride / Cadmium sulfide [CdTe/CdS] Cell Type Frame Junction Box Protection Class IP65 By-Pass Diode None Cable Length 650 mm (+Cable), 850 mm (-Cable) Solar cable 1.5mm² Cable Type Connector Y-Sol4



ELECTRICAL CHARACTERISTICS									
Performance at standard test conditions (STC: 1000W/m², 25°C, AM 1.5 Spectrum)¹									
POWER CLASS	CX		75	77	80	82	85		
Nominal Power (±5%)	P _{MPP}	[W]	75.0	77.5	80.0	82.5	85.0		
Current at max. Power	I _{MPP}	[A]	1.65	1.68	1.72	1.75	1.78		
Voltage at max. Power	V _{MPP}	[V]	46.3	46.7	47.0	47.3	47.8		
Short Circuit Current	I _{sc}	[A]	1.95	1.98	2.01	2.04	2.06		
Open Circuit Voltage	V _{oc}	[V]	62.0	62.5	62.8	63.2	63.6		
Performance at normal operating cell temperature (NOCT: 800 W/m², 40 ±2°C, AM 1.5 Spectrum)									
Power Class		CX	75	77	80	82	85		
Nominal Power	P _{MPP}	[W]	57.2	58.9	60.4	62.0	63.6		
Current at maximum Power	I _{MPP}	[A]	1.32	1.35	1.38	1.40	1.43		
Voltage at maximum Power	V_{MPP}	[V]	43.2	43.6	43.9	44.2	44.5		
Short Circuit Current	I _{sc}	[A]	1.56	1.59	1.61	1.63	1.66		
Open Circuit Voltage	V _{oc}	[V]	57.9	58.3	58.6	58.9	59.3		
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 Coefficients of I _{sc}	α	[%/K]	+0.02			
Temperature Coefficients of $V_{\rm oc}$	β	[%/K]	-0.24			
Temperature Coefficients of $P_{\text{\tiny MPP}}$	Υ	[%/K]	-0.25			

 $^{^{9}}$ The power classes are defined by positive sorting (+2.5W/-oW) according to measured P_{MPP} under STC. I_{MPP} 1 _{LCT} 1 _{V_C} are within ±10% of the indicated values under STC.

Valid indoor measurement of STC performance is obtained by pretreating the module before measurement with 24 hour light soak (at approx. 1000W/m² in open circuit) followed by cool down to 25°C.

Properties for system design						
Maximum System Voltage	$V_{\rm SYS}$	[V]	1000 (IEC) / 600 (UL1703)			
Maximum Reverse Current	I _R	[A]	4.0			
Wind / Snow Load	р	[Pa]	2400			
Safety Class	II					
Fire Rating	С					

YOUR DIRECT CONTACT TO THE SUN

QUALIFICATIONS AND CERTIFICATES

IEC 61646; IEC 61730 Application Class A; MCS; ISO 9001:2008; ISO 14001:2004; OHSAS 18001:2007; PVCycle; CE-Mark; Safety Class II; UL 1703 (pending)















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