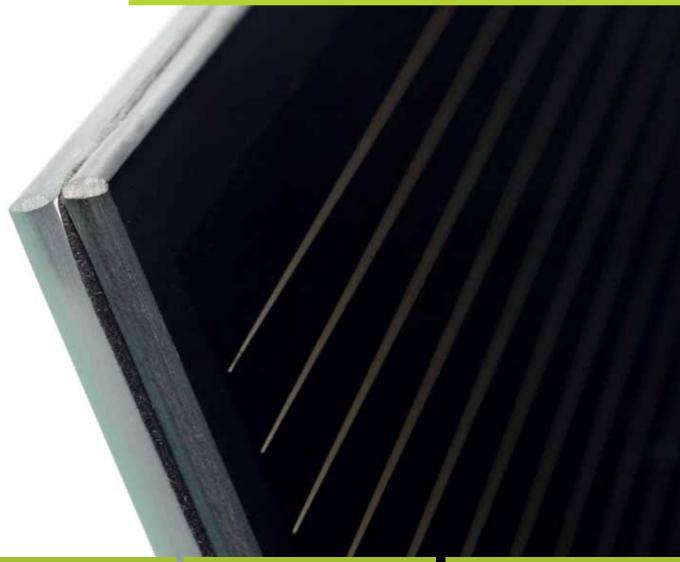


Original size

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

- 1200x600mm module area
- Low temperature coefficients
- High performance ratio
- Positive sorting +2,5W/-0W
- 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 6.9 mm (21.0 including junction box) Thickness 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 Junction Box Protection Class IP65 By-Pass Diode none Cable Length 650 mm (+Cable), 850 mm (-Cable) Solar cable 1.5mm² Cable Type Connector

100 -/Y-Sol4 / 850+/-15 1200^{+1,5} 1200^{+1,5} 1200^{+1,5}

TECHNICAL DRAWING

ELECTRICAL CHARACTERISTICS								
Performance at standard test	conditions	(STC: 1000W	//m², 25°C, AN	1 1.5 Spectrum)1			
POWER CLASS		CX3	CX3 75	CX3 77	CX3 80	CX3 82	CX3 85	
Nominal Power (+10% / -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	\mathbf{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 opera	ting cell ter	nperature (N	OCT: 800 W/m	n², 40 ±2°C, AN	/I 1.5 Spectrum	1)		
POWER CLASS		CX3	CX3 75	CX3 77	CX3 80	CX3 82	CX3 85	
Nominal Power	P_{MPP}	[W]	57.2	58.9	60.4	62.0	63.6	
Current at max. Power	\mathbf{I}_{MPP}	[A]	1.32	1.35	1.38	1.40	1.43	
Voltage at max. Power	$V_{_{MPP}}$	[V]	43.2	43.6	43.9	44.2	44.5	
Short Circuit Current	\mathbf{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	

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 $\boldsymbol{I}_{\mathrm{SC}}$	а	[%/K]	+0.02		
Temperature V _{oc}	β	[%/K]	-0.24		
Temperature P _{MPP}	γ	[%/K]	-0.25		

 $\label{eq:power_power} \begin{tabular}{ll} \$

Properties for system design (IEC)					
Maximum System Voltage		[V]	1000		
Maximum Reverse Current		[A]	4.0		
Wind / Snow Load	р	[Pa]	2400		
Safety Class	II				
Fire Rating	В				

YOUR DIRECT CONTACT TO THE SUN

QUALIFICATIONS AND CERTIFICATES

IEC 61646; IEC 61730; MCS; IEC 61701; IEC 62716; PV Cycle; CE-Mark; Safety Class II; ISO 9001:2008; ISO 14001:2004; OHSAS 18001:2007; ISO 50001:2011

















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