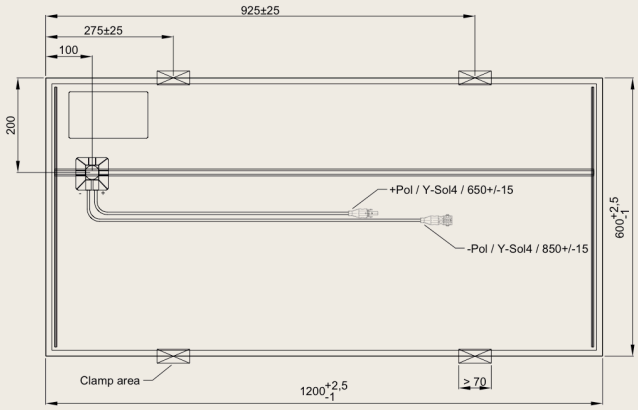
Microsys International (S) Pte Limited

MECHANICAL SPECIFICATION

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 1.5mm²
Connector	Y-Sol4

TECHNICAL DRAWING



ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000W/m², 25°C, AM 1.5 SPECTRUM)[1]

POWER CLASS	CX		60	62	65	67	70
Nominal Power (±5%)	P_{MPP}	[W]	60.0	62.,5	65.0	67.5	70.0
Current at max. Power	I_{MPP}	[A]	0.99	1.01	1.04	1.06	1.07
Voltage at max. Power	V_{MPP}	[V]	62.2	63.0	63.9	64.7	65.8
Short Circuit Current	I_{SC}	[A]	1.23	1.23	1.24	1.25	1.25
Open Circuit Voltage	V_{OC}	[V]	89.7	90.4	91.3	91.7	92.9

PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 45 ±2°C, AM 1.5 SPECTRUM)

POWER CLASS	CX		60	62	65	67	70
Nominal Power	P_{MPP}	[W]	45.5	47.3	49.2	50.8	52.2
Current at maximum Power	I_{MPP}	[A]	0.79	0.81	0.84	0.85	0.86
Voltage at maximum Power	V_{MPP}	[V]	57.3	58.0	58.8	59.6	60.6
Short Circuit Current	I_{SC}	[A]	0.99	0.99	1.00	1.00	1.01
Open Circuit Voltage	V_{OC}	[V]	82.6	83.3	84.1	84.5	85.6

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_{OC}	**β**	**[%/K]**	-0.24
Temperature Coefficients of P_{MPP}	**γ**	**[%/K]**	-0.25

[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.

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{SYS}	[V]	1000 (IEC) / 600 (UL1703)
Maximum Reverse Current	I_R	[A]	2.5
Wind / Snow Load	p	[Pa]	2400
Safety Class			II
Fire Rating			C

QUALIFICATIONS AND CERTIFICATES

IEC 61646; IEC 61730 Application Class A; UL 1703 (pending); MCS (pending); DIN EN ISO 9001:2008; DIN EN ISO 14001:2004; CE-Mark

Safety Class II

Note