

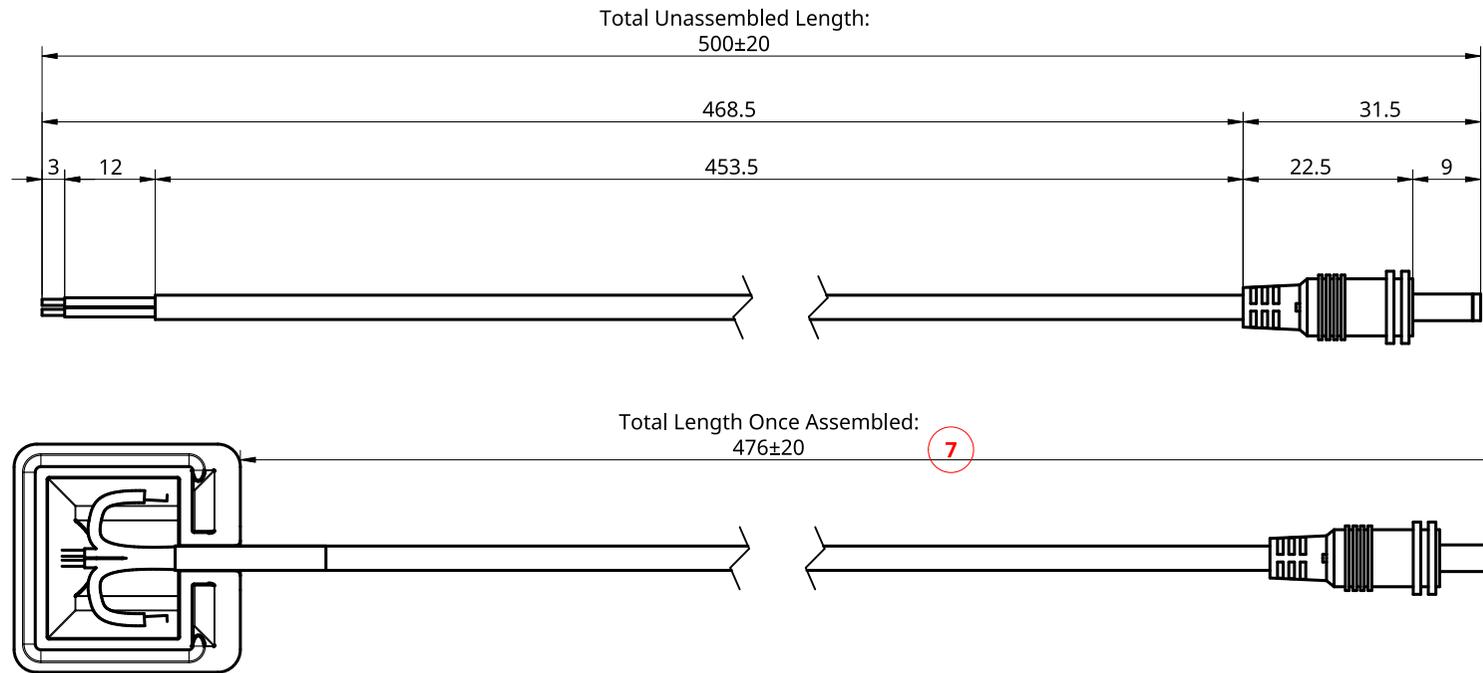
REMARKS

1. All dimensions to panel edge include EVA overlap unless otherwise specified.
2. "####" etching refers to Voltaic's PO# for traceability



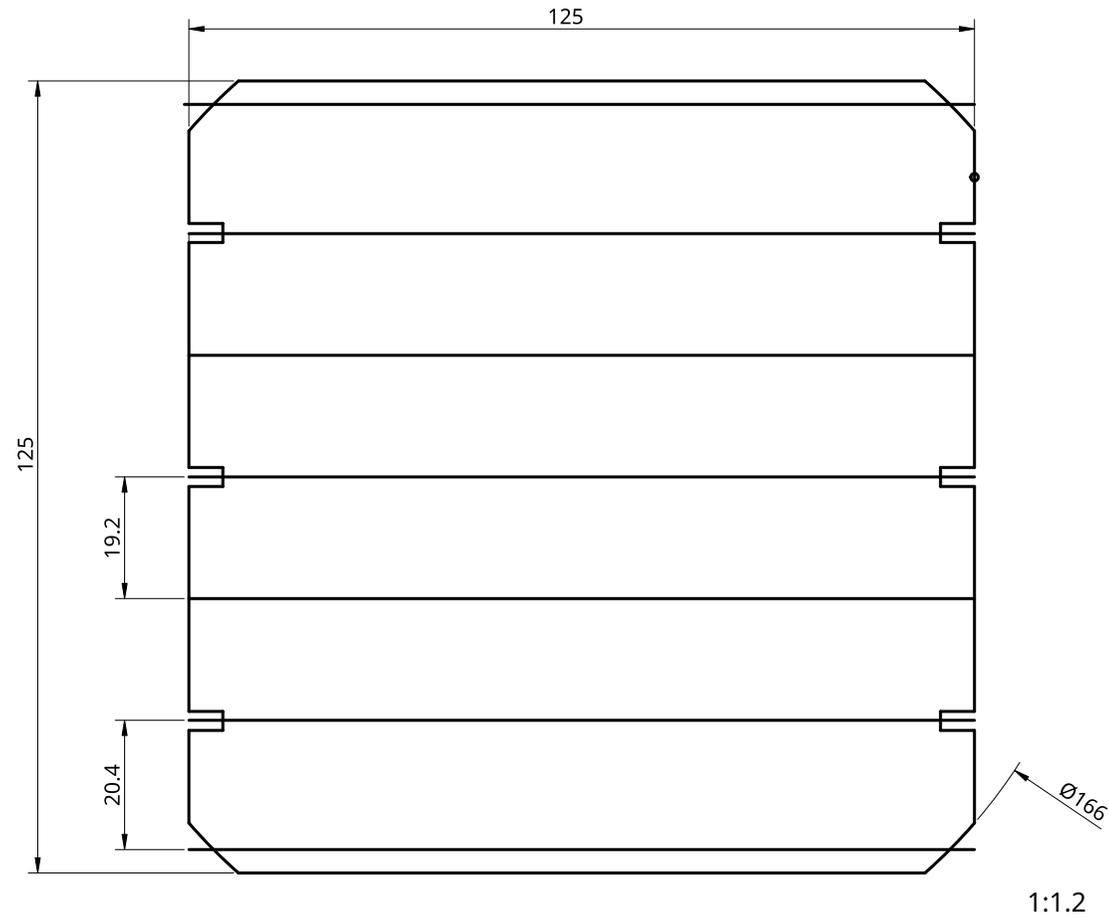
Drawing Details		Construction		Power Specifications				
Panel Number	P105	All Materials RoHS Compliant		Output Tolerance: $\pm 10\%$ of Voltage and Current				
Revision	R7E	Substrate	FR4 (NO CIRCUIT)	Solar Cell: SUNPOWER 21.9% MAXEON GEN II $\varnothing 166$ - KP2				
Engineer	ME	Encapsulant	EVA F806P	Nominal Efficiency: $21.9\% \leq$		Cell Pieces		10
Approval		Top Layer	R045E ETFE	Panel Electrical Rating		Nominal	Expected	
Date Created	2021-01-18	Top Layer Pattern	ETFE MINIMAL	Open-Circuit Voltage	Voc	6.61	5.94	V
Date Modified	2022-02-11	Wire Number	W052	Voltage at Max Power	Vp	5.21	4.69	V
Changes	CELLS	Measured Wire Length	476	Short-Circuit Current	Isc	0.95	1.06	A
Tolerance: ± 0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	1.06	0.98	A
Scale: 1:3	Sheet: 1/3	Attachment	THROUGH HOLES	Maximum Power	Wp	5.51	4.61	W

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Drawing Detail		Construction	
Wire Number	W052	All Materials RoHS Compliant	
Revision	R1C	Length	500mm
Engineer	ME	Gauge	22 AWG
Approval	SM 2021-01-12	Connector	M3511
Date Created	2021-01-18	Crimp	N/A
Date Modified	2022-02-11	Jacket Color	RED
Changes	12MM STRIPPED ENDS	Jacket Material	PU
Tolerance per mm	Length > 30mm: ± .04 mm	Insulator Colors	RED & BLACK
	Length < 30mm: ±.15 mm	Insulator Material	PVC
	Diameter: ± .03 mm	Scale: 1:1	Sheet: 2/3



Cell Cut Diagram

Cell	SUNPOWER 21.9% MAXEON GEN II Ø166 - KP2	
Cell Efficiency	>21.9%	
Panel Reference	P105	
Panel Revision	R7E	
Date Created	2021-01-18	
Date Modified	2022-02-11	
Approval		
Tolerance: ±0.3 mm	Units: mm	
Scale: 1:1.5	Sheet: 3/3	

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