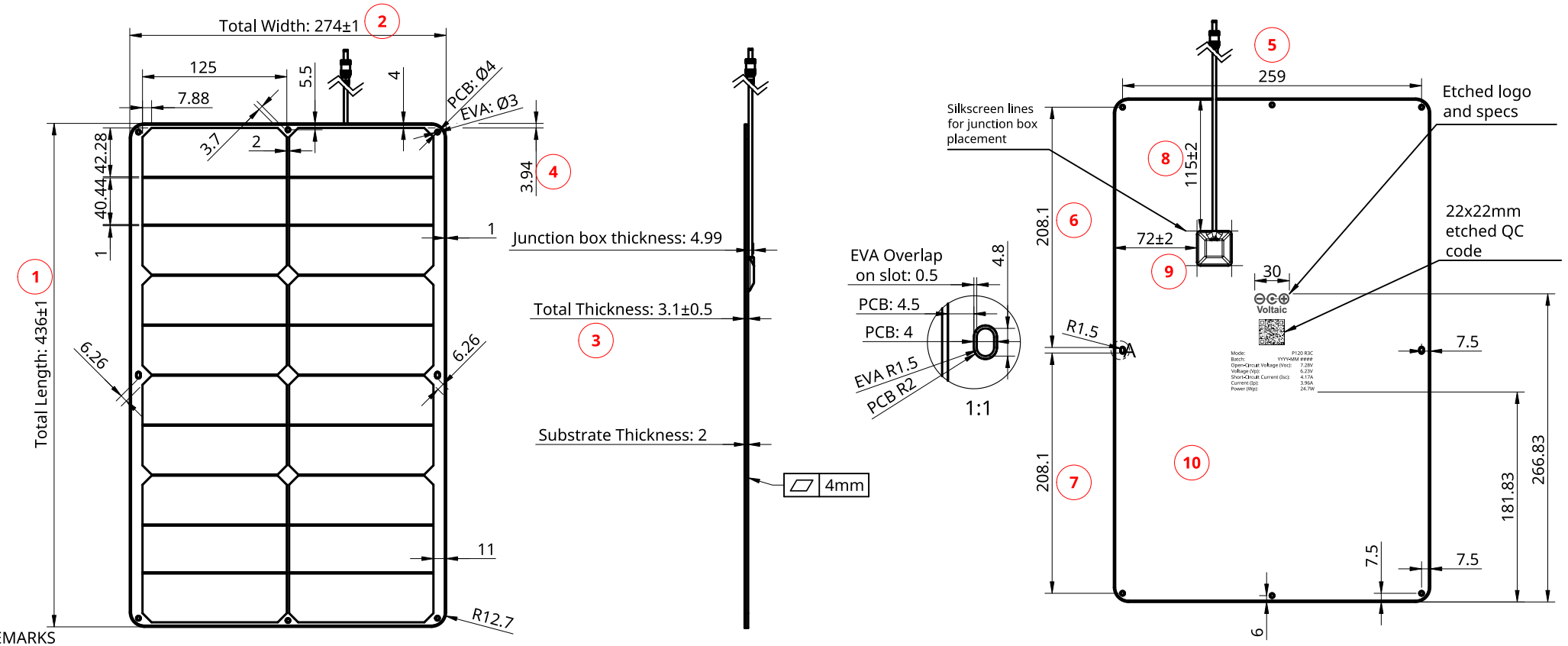
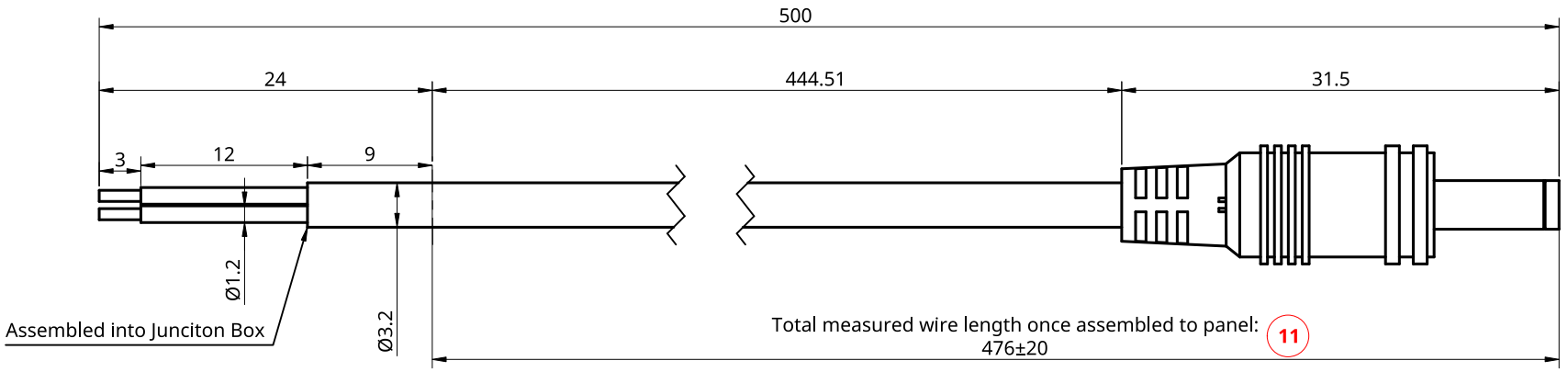


REMARKS
1. All dimensions to panel edge include EVA overlap unless otherwise specified.
2. "####" etching refers to Voltaic's PO# for traceability
3. Maximum bowing from flat surface 5mm

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Drawing Details		Construction		Power Specifications				
Panel Number	P120	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current				
Revision	R3C	Substrate	SINGLE SIDED PCB	Solar Cell: SUNPOWER 24.4% MAXEON GEN III Ø166 NE3				
Engineer	RF	Encapsulant	EVA F806P	Nominal Efficiency: 24.4%≤		Cell Pieces	10S2P	20
Approval	SM 2022-03-22	Top Layer	TEFKA ECTFE	Panel Electrical Rating		Nominal	Expected	
Date Created	2021-12-10	Top Layer Pattern	ETFE YH01	Open-Circuit Voltage	Voc	7.28	7.07	V
Date Modified	2025-09-10	Wire Number	W052	Voltage at Max Power	Vp	6.23	6.01	V
Changes	QC SILKSCREEN	Measured Wire Length	476	Short-Circuit Current	Isc	4.17	3.86	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	3.96	3.45	A
Scale: 1:5	Sheet: 1/3	Attachment	THROUGH HOLES	Maximum Power	Wp	24.7	20.7	W



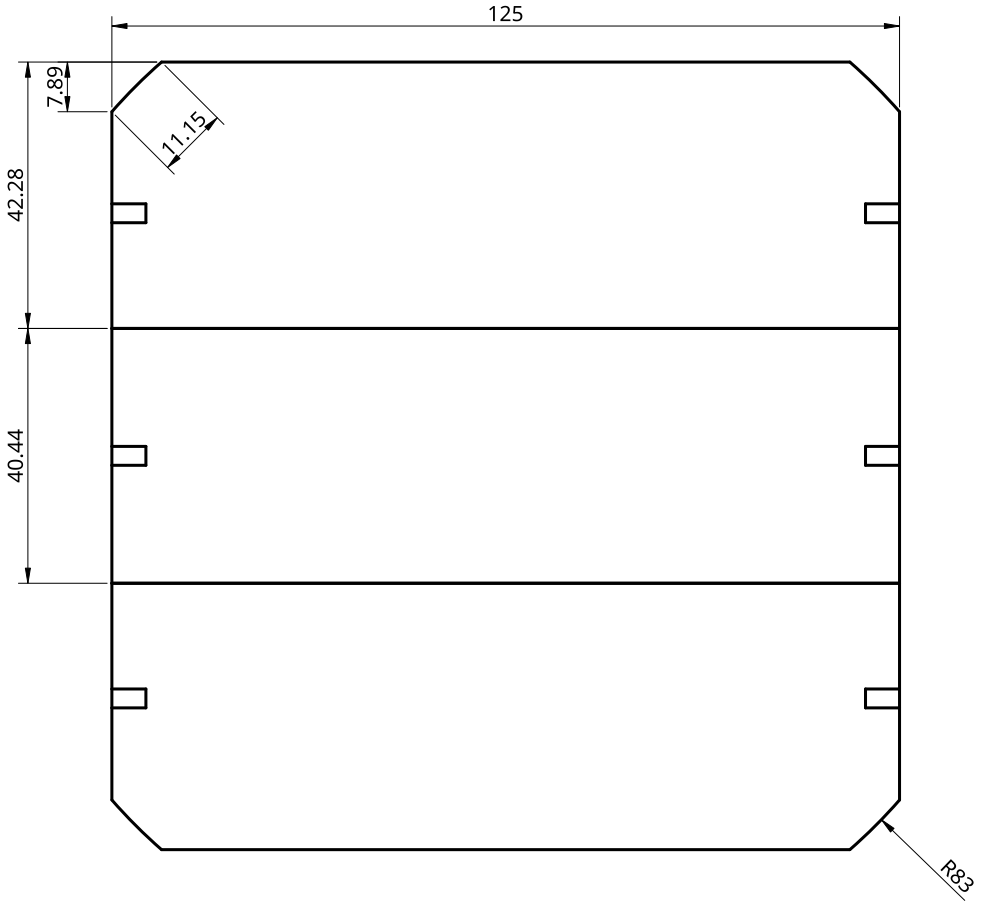
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Drawing Detail		Construction	
Wire Number	W052	All Materials RoHS Compliant	
Revision	R1C	Length	500mm
Engineer	ME	Gauge	22 AWG
Approval	SM 2021-01-12	Connector	M3511
Date Created	2021-12-10	Crimp	N/A
Date Modified	2025-09-10	Jacket Color	RED
Changes	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: 1:4	Sheet: 2/3

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Assembly Into junction Box



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Cell Cut Diagram	
Cell	SUNPOWER 24.4% MAXEON GEN III Ø166 NE3
Cell Efficiency	>24.4%
Panel Reference	P120
Panel Revision	R3C
Date Created	2021-12-10
Date Modified	2025-09-10
Approval	SM 2022-03-22
Tolerance: ±0.3 mm	Units: mm
Scale: 1:4	Sheet: 3/3

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