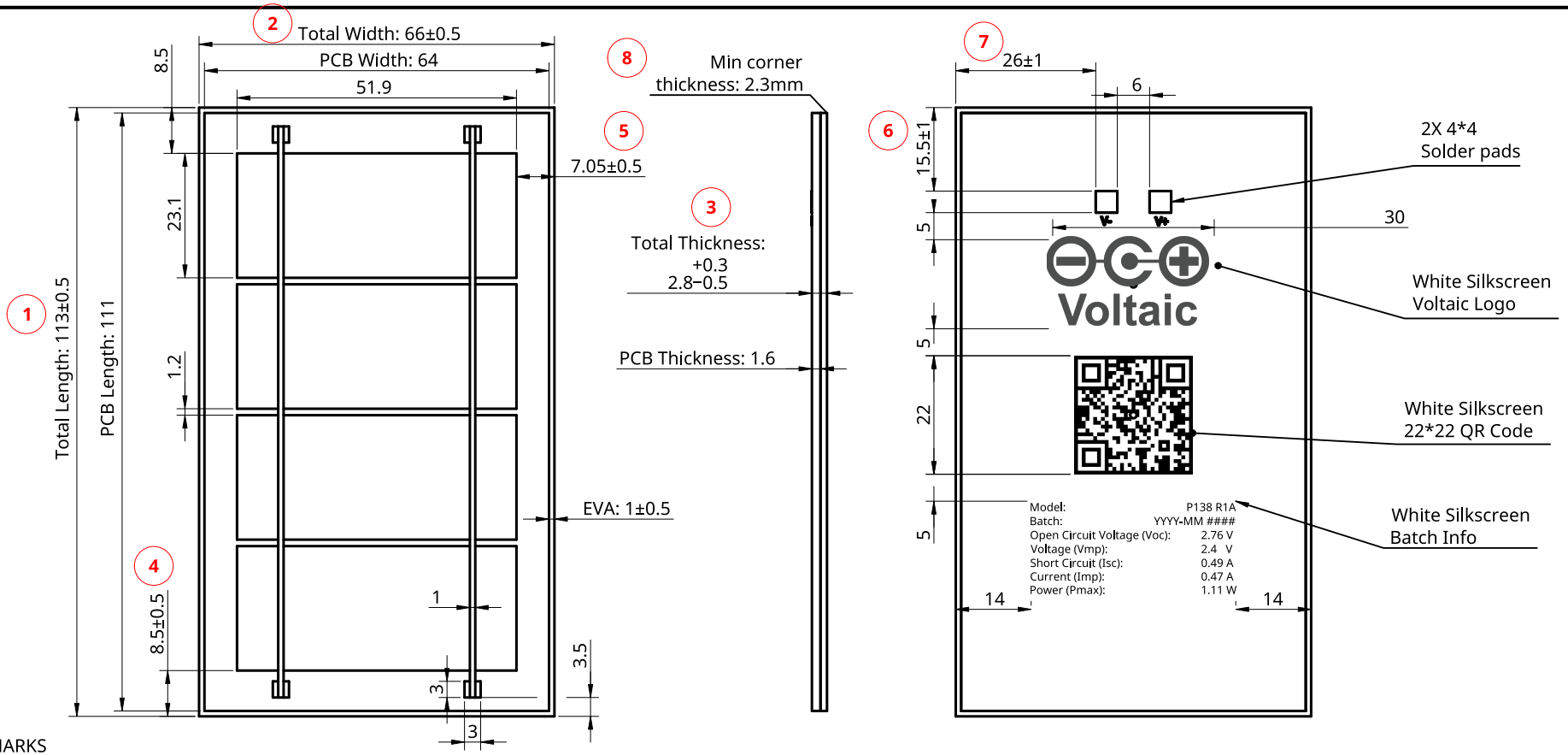
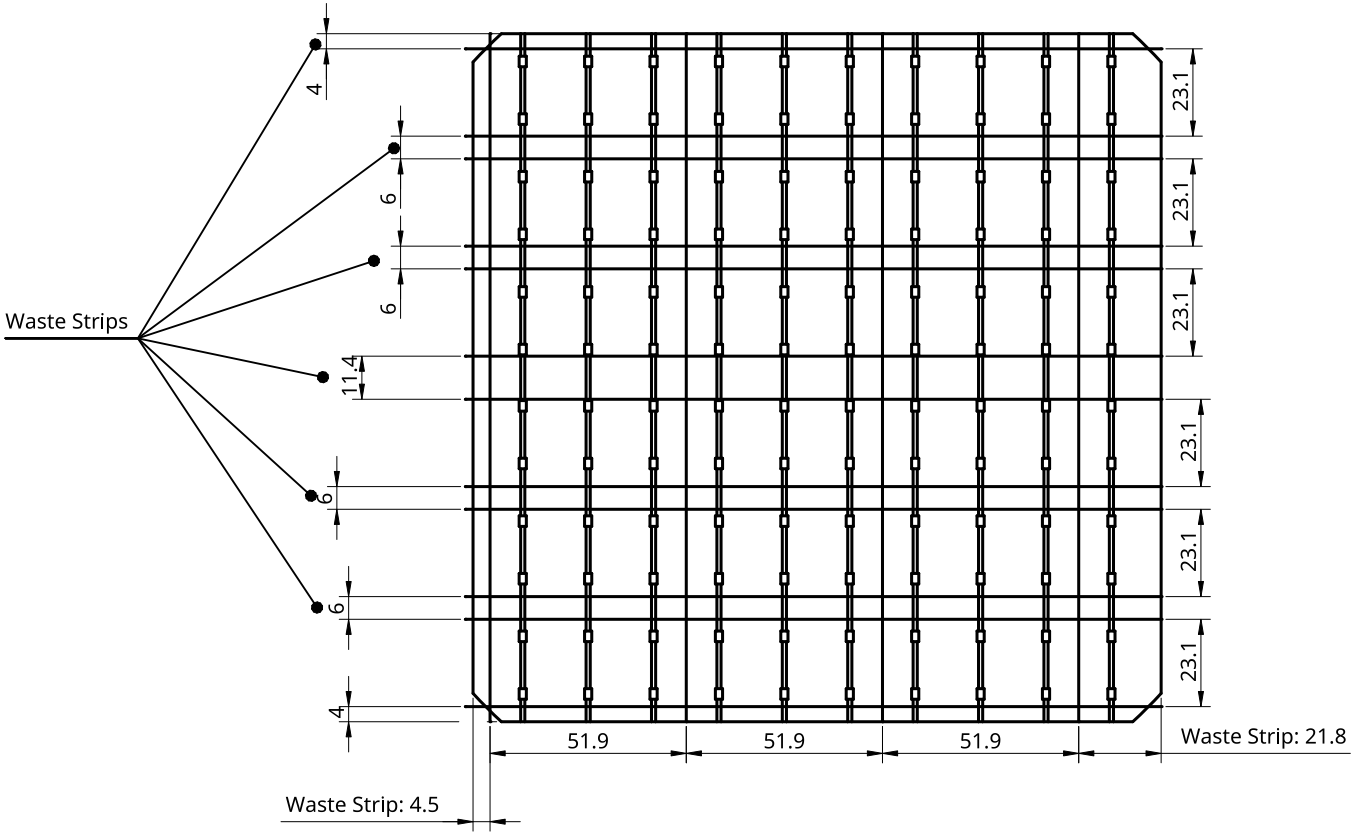


REMARKS
1. All dimensions to panel edge include EVA overlap unless otherwise specified.
2. "####" etching refers to Voltaic's PO# for traceability

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Drawing Details		Construction		Power Specifications				
Panel Number	P138	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current				
Revision	R1A	Substrate	DOUBLE SIDED PCB	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB				
Engineer	AK	Encapsulant	EVA F806P	Nominal Efficiency: ≥23.2%	Cell Pieces	4S1P	4	
Approval	SM 2025-11-05	Top Layer	TEFKA ECTFE	Panel Electrical Rating		Nominal	Expected	
Date Created	2021-01-18	Top Layer Pattern	ETFE YH04	Open-Circuit Voltage	Voc	2.76	2.62	V
Date Modified	2025-11-05	Wire Number	NA	Voltage at Max Power	Vp	2.4	2.28	V
Changes	INITIAL DESIGN	Measured Wire Length	NA	Short-Circuit Current	Isc	0.49	0.49	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	NONE	Current at Max Power	Ip	0.47	0.45	A
Scale: 1:1.2	Sheet: 1/2	Attachment	VHB	Maximum Power	Wp	1.11	1.02	W

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Cell Cut Diagram	
Cell	EUROPEAN MONOCRYSTALLINE M182 10BB
Cell Efficiency	>23.2%
Panel Reference	P138
Panel Revision	R1A
Date Created	2021-01-18
Date Modified	2025-11-05
Approval	SM 2025-11-05
Tolerance: ±0.3 mm	Units: mm
Scale: 1:1.2	Sheet: 2/2

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