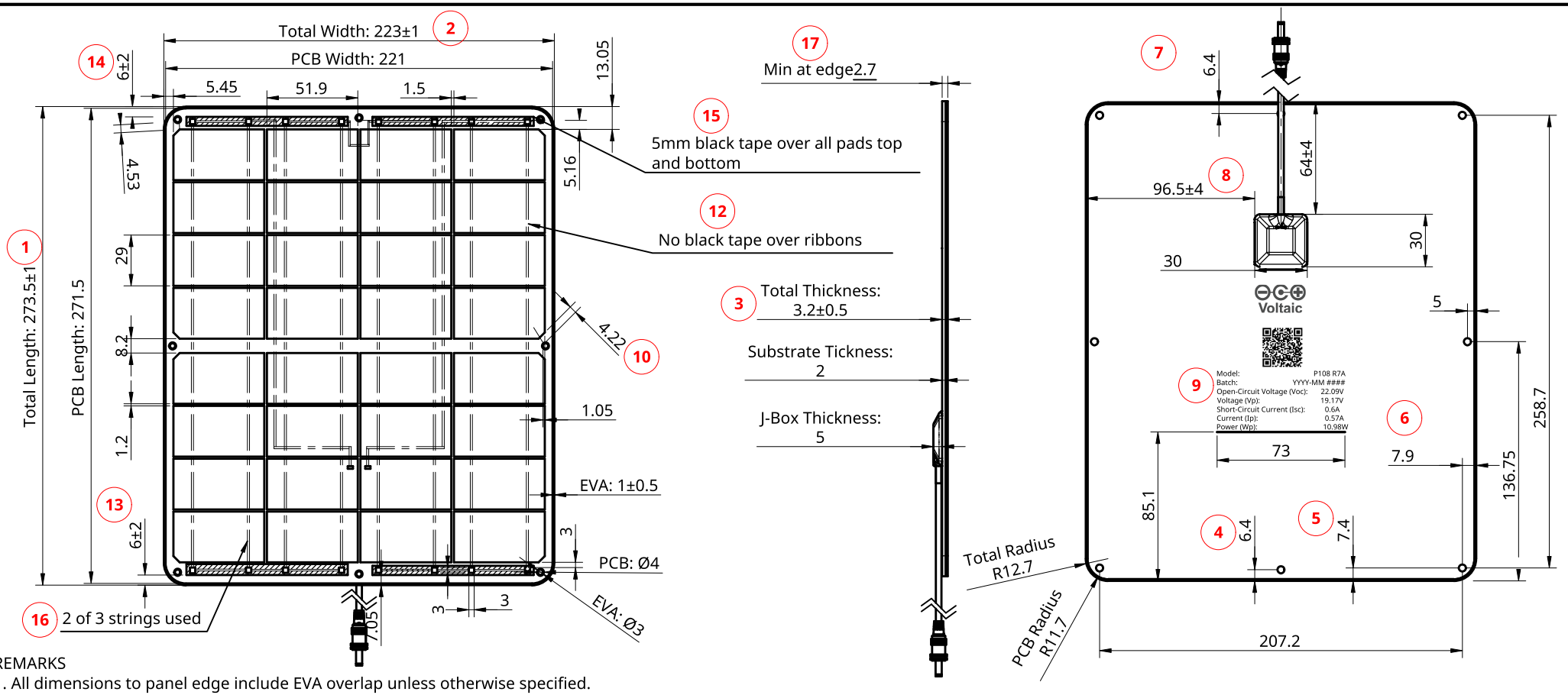
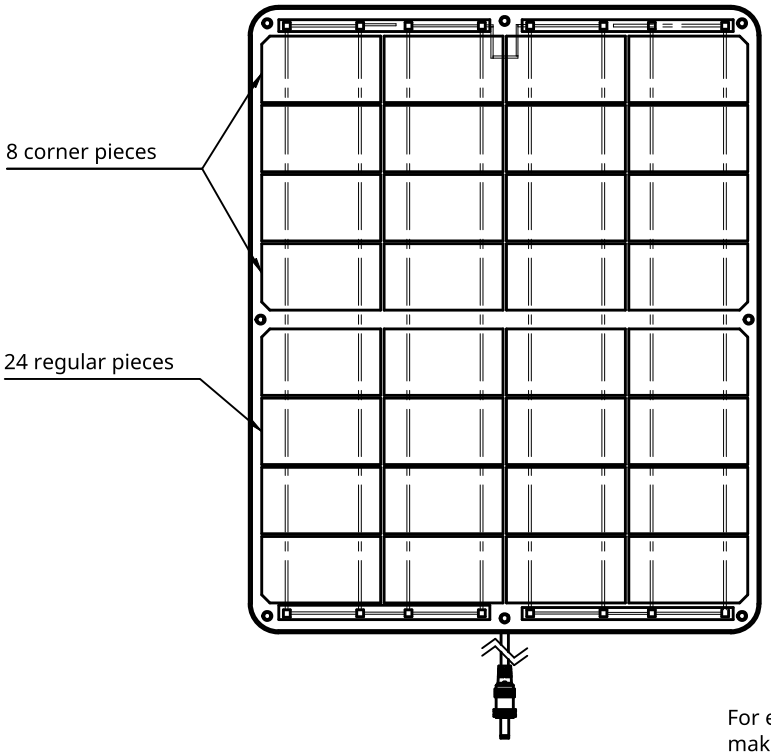


REMARKS
1. All dimensions to panel edge include EVA overlap unless otherwise specified.
2. "####" etching refers to Voltaic's PO# for traceability

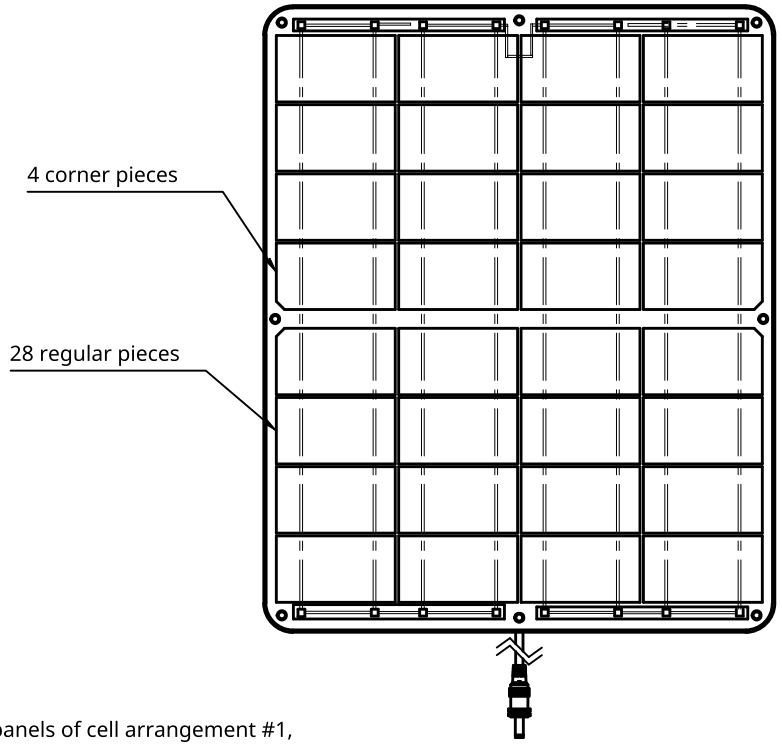
Voltaic

Drawing Details		Construction		Power Specifications				
Panel Number	P108	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current				
Revision	R7A	Substrate	SINGLE SIDED PCB	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB				
Engineer	ME	Encapsulant	EVA F806P	Nominal Efficiency: 23%≤		Cell Pieces		32
Approval	2026-03-20 SM	Top Layer	TEFKA ECTFE	Panel Electrical Rating		Nominal	Expected	
Date Created	2021-01-18	Top Layer Pattern	ETFE YH01	Open-Circuit Voltage	Voc	22.09	20.99	V
Date Modified	2026-03-20	Wire Number	W052	Voltage at Max Power	Vp	19.17	18.21	V
Changes	10BB CELLS	Measured Wire Length	500	Short-Circuit Current	Isc	0.6	0.58	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	0.57	0.54	A
Scale: 1:3.3	Sheet: 1/4	Attachment	THROUGH HOLES	Maximum Power	Wp	10.98	9.86	W

This document contains proprietary information and may not be copied or shared without the consent of Voltaic Systems



Cell Arrangement #1



Cell Arrangement #2

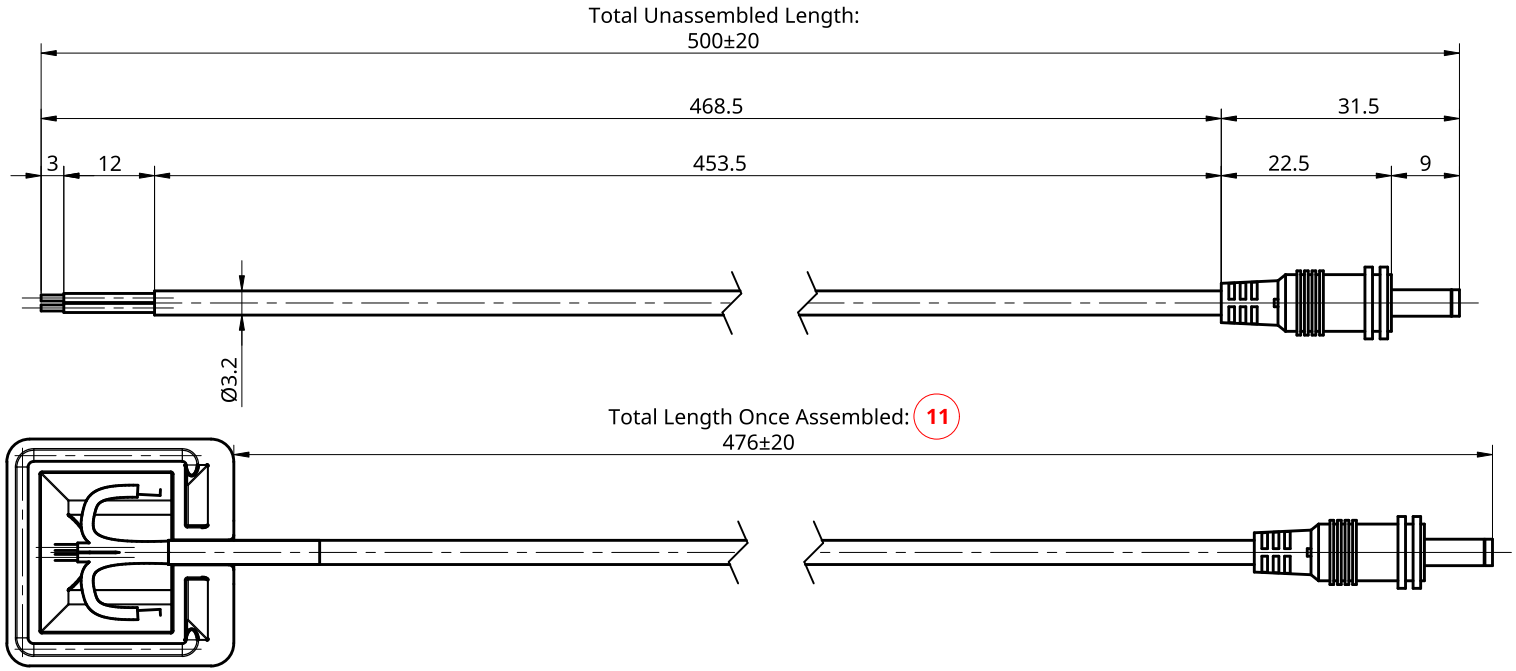
For every 7 panels of cell arrangement #1, make 2 panels of cell arrangement #2

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

Voltaic

Drawing Details		Construction		Power Specifications				
Panel Number	P108	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current				
Revision	R7A	Substrate	SINGLE SIDED PCB	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB				
Engineer	ME	Encapsulant	EVA F806P	Nominal Efficiency: 23%≤		Cell Pieces		32
Approval	2026-03-20 SM	Top Layer	TEFKA ECTFE	Panel Electrical Rating		Nominal	Expected	
Date Created	2021-01-18	Top Layer Pattern	ETFE YH01	Open-Circuit Voltage	Voc	22.09	20.99	V
Date Modified	2026-03-20	Wire Number	W052	Voltage at Max Power	Vp	19.17	18.21	V
Changes	10BB CELLS	Measured Wire Length	500	Short-Circuit Current	Isc	0.6	0.58	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	0.57	0.54	A
Scale: 1:3.3	Sheet: 2/4	Attachment	THROUGH HOLES	Maximum Power	Wp	10.98	9.86	W

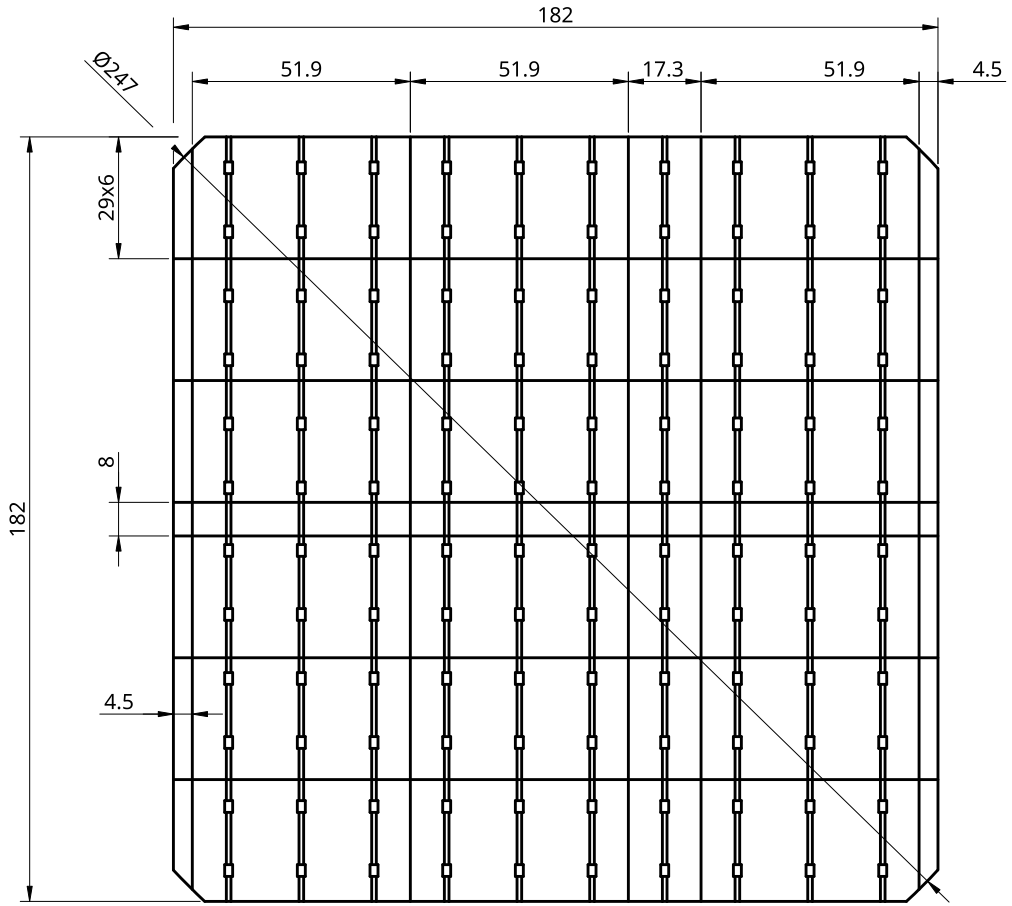
This document contains proprietary information and may not be copied or shared without the consent of Voltaic Systems



Voltaic

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	2026-03-20	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: 3/4

This document contains proprietary information and may not be copied or shared without the consent of Voltaic Systems



1:1.8

Voltaic

Cell Cut Diagram	
Cell	EUROPEAN MONOCRYSTALLINE M182 10BB
Cell Efficiency	>23%
Panel Reference	P108
Panel Revision	R7A
Date Created	2021-01-18
Date Modified	2026-03-20
Approval	2026-03-20 SM
Tolerance: ±0.3 mm	Units: mm
Scale: 1:1.5	Sheet: 4/4

This document contains proprietary information and may not be copied or shared without the consent of Voltaic Systems