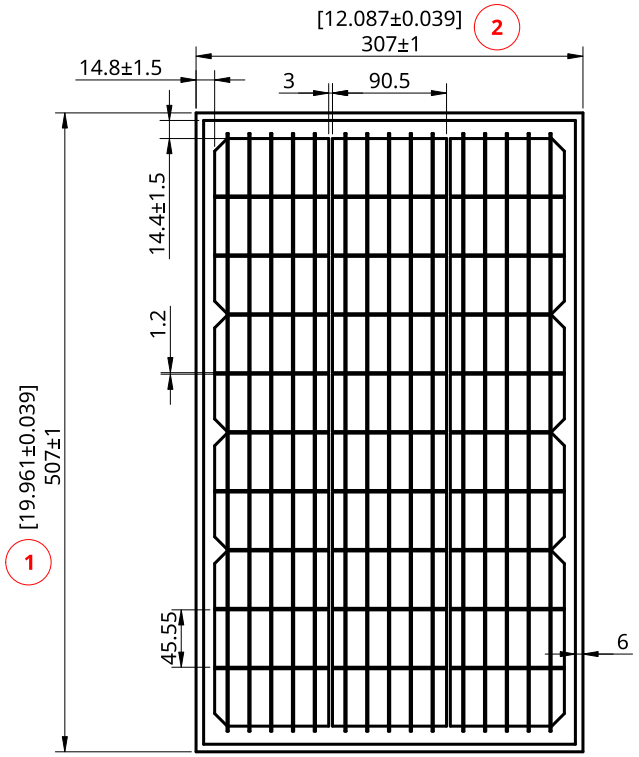
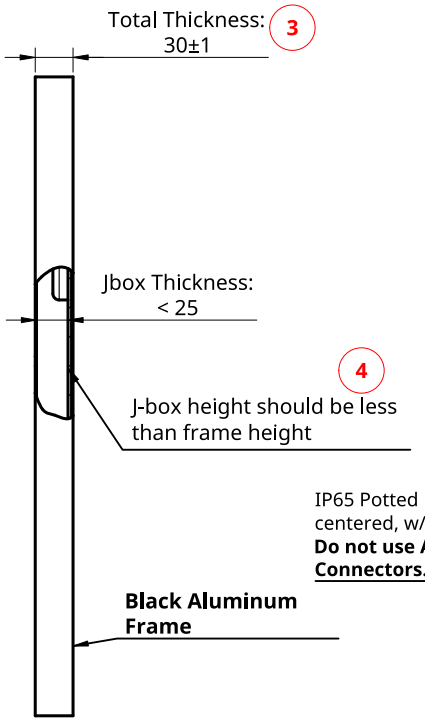
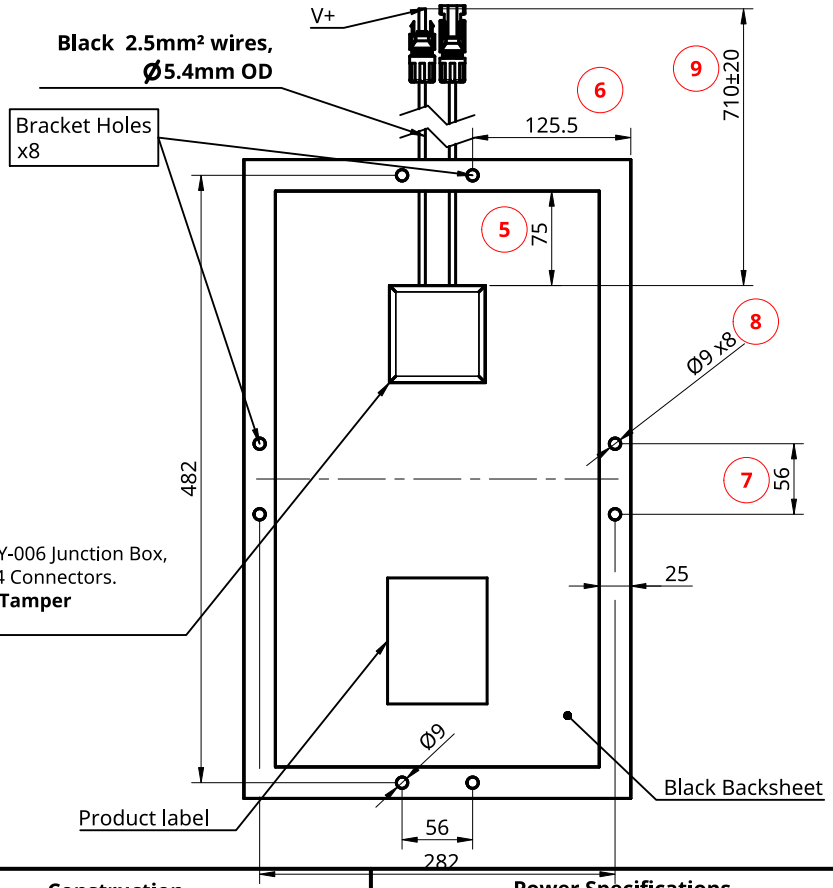




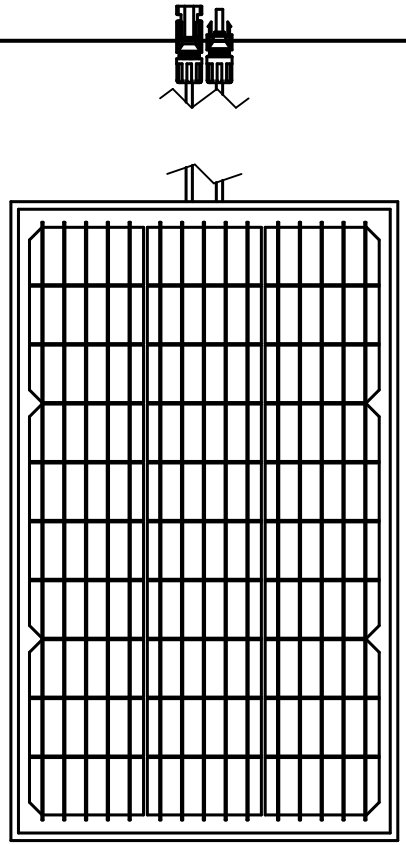


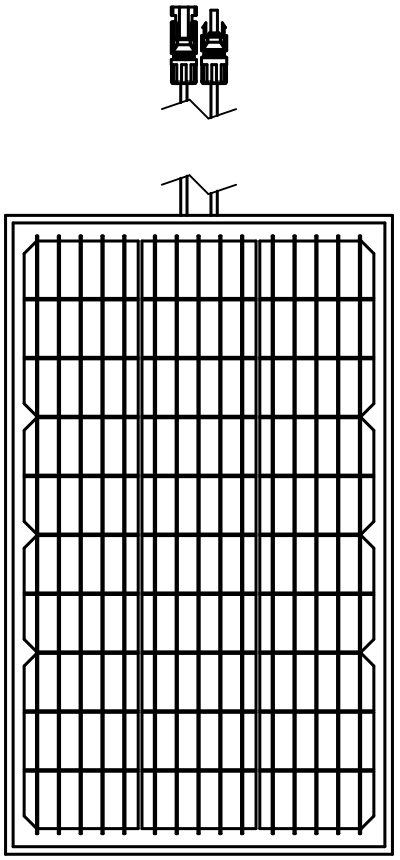
REMARKS
1. "####" refers to Voltaic's PO# for traceability
2. Please note red circled inspection items
3. **Please refer to corner piece placement in the next sheet.**

Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P152	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R6A	Substrate	BLACK KPF	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB			
Engineer	AK	Encapsulant	EVA F806P	Nominal Efficiency: ≥23.2%	Cell Pieces:	30	
Approval	SM 2025-06-26	Top Layer	TEMPERED GLASS	Panel Electrical Rating			
Date Created	2021-02-03	Top Layer Pattern	N/A	Open-Circuit Voltage	Voc	19.6	V
Date Modified	2025-06-26	Wire Number	W251	Voltage at Max Power	Vp	16.9	V
Changes	NEW EUROPEAN CELLS	Measured Wire Length	710	Short-Circuit Current	Isc	1.6	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	1.5	A
Scale: 1:6	Sheet: 1/5	Attachment	BLACK ALUMINIUM FRAME	Maximum Power	Wp	25	W

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REMARKS
1. **Three 16 corner piece panel to one 12 piece panel should utilize all of the cell pieces.**

12 Corner piece Arrangment

16 Corner piece Arrangment

Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P152	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R6A	Substrate	BLACK KPF	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB			
Engineer	AK	Encapsulant	EVA F806P	Nominal Efficiency: ≥23.2%	Cell Pieces:	30	
Approval	SM 2025-06-26	Top Layer	TEMPERED GLASS	Panel Electrical Rating			
Date Created	2021-02-03	Top Layer Pattern	N/A	Open-Circuit Voltage	Voc	19.6	V
Date Modified	2025-06-26	Wire Number	W251	Voltage at Max Power	Vp	16.9	V
Changes	NEW EUROPEAN CELLS	Measured Wire Length	710	Short-Circuit Current	Isc	1.6	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	1.5	A
Scale: 1:6	Sheet: 2/5	Attachment	BLACK ALUMINIUM FRAME	Maximum Power	Wp	25	W

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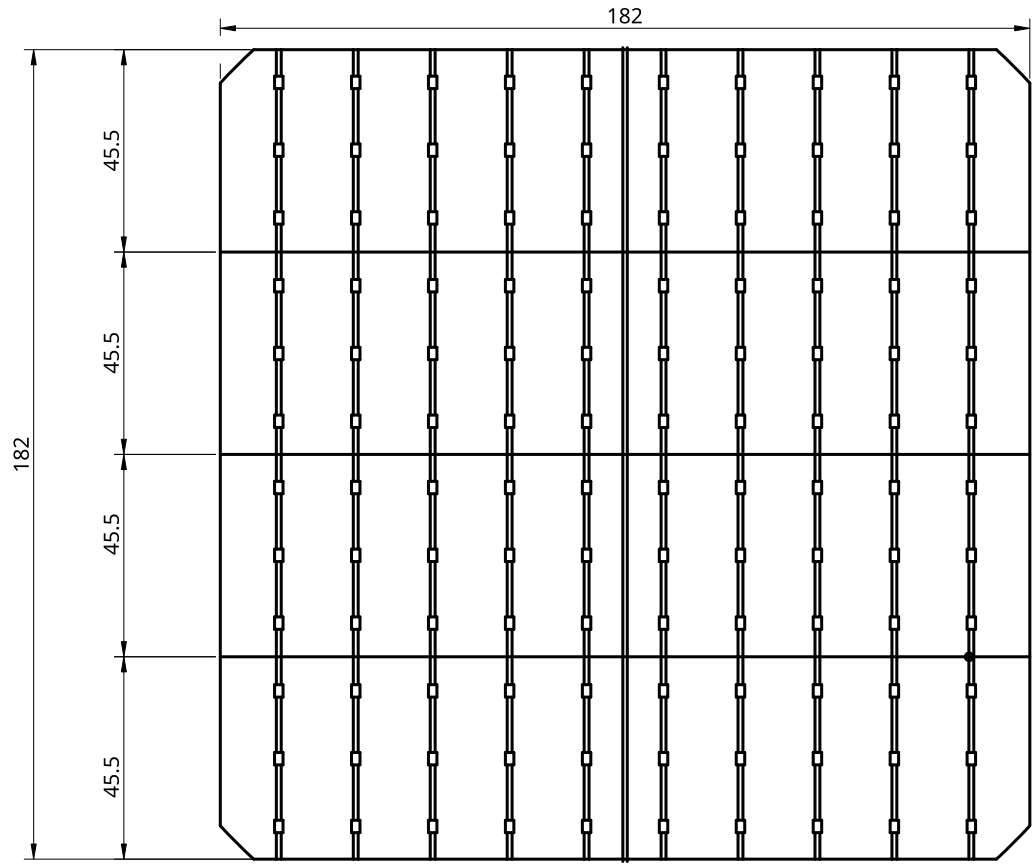
Voltaic

Model Number	P152 R6A
Number of cell pieces	30
Open Circuit Voltage (Voc)	19.6 V
Max Power Point Voltage (Vp)	16.9 V
Short Circuit Current (Isc)	1.6 A
Max Power Point Current (Ip)	1.5 A
Max Power (Wp)	25 W

Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P152	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R6A	Substrate	BLACK KPF	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB			
Engineer	AK	Encapsulant	EVA F806P	Nominal Efficiency: ≥23.2		Cell Pieces:	30
Checked By	SM 2025-06-26	Top Layer	TEMPERED GLASS	Panel Electrical Rating			
Date Created	2021-02-03	Wire Number	W251	Open-Circuit Voltage	Voc	19.6	V
Date Modified	2025-06-26	Wire Length	710	Voltage at Max Power	Vp	16.9	V
Changes	NEW EUROPEAN CELLS	Strain Relief	J-BOX	Short-Circuit Current	Isc	1.6	A
Tolerance: ±0.3 mm	Units: mm	Attachment	ALUMINIUM FRAME	Current at Max Power	Ip	1.5	A
Scale: 1:25	Sheet: 3/5			Maximum Power	Wp	25	W

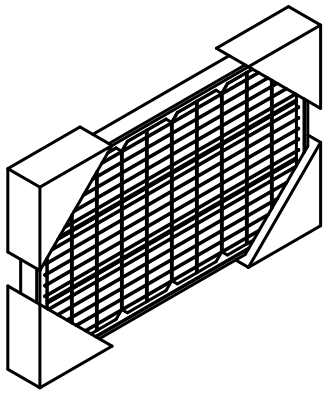
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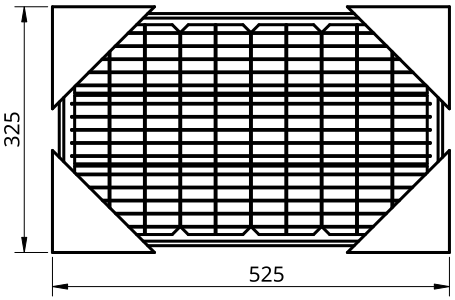


Voltaic

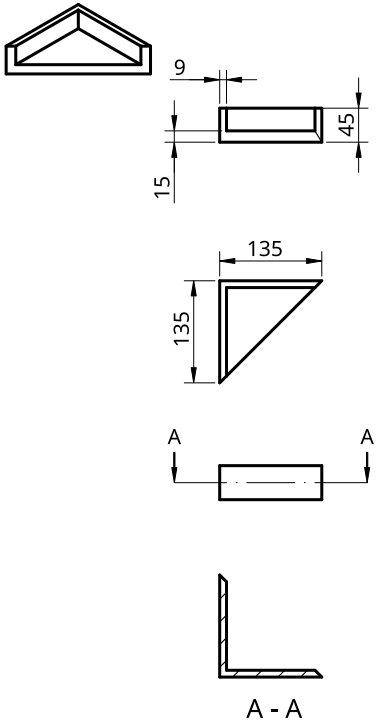
Cell Cut Diagram	
Cell	EUROPEAN MONOCRYSTALLINE M182 10BB
Cell Efficiency	≥23.2%
Panel Reference	P152
Panel Revision	R6A
Date Created	2021-02-03
Date Modified	2025-06-26
Approval	SM 2025-06-26
Tolerance: ±0.3 mm	Units: mm
Scale: 1:1.7	Sheet: 4/5

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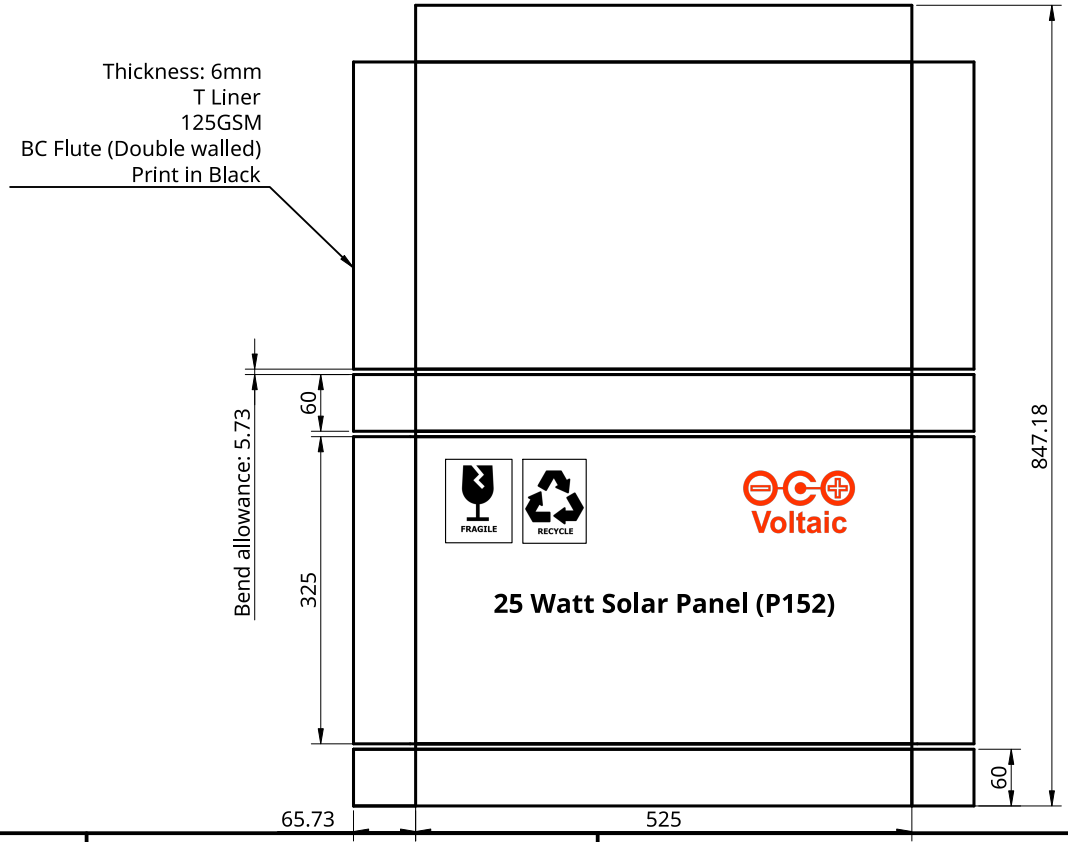




Panel with Protective Corner Pieces



Protective Corner Piece:
EPE Foam/Cardboard base



Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P152	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R6A	Substrate	BLACK KPF	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB			
Engineer	AK	Encapsulant	EVA F806P	Nominal Efficiency: ≥23.2	Cell Pieces:	30	
Checked By	SM 2025-06-26	Top Layer	TEMPERED GLASS	Panel Electrical Rating			
Date Created	2021-02-03	Wire Number	W251	Open-Circuit Voltage	Voc	19.6	V
Date Modified	2025-06-26	Wire Length	710	Voltage at Max Power	Vp	16.9	V
Changes	NEW EUROPEAN CELLS	Strain Relief	J-BOX	Short-Circuit Current	Isc	1.6	A
Tolerance: ±0.3 mm	Units: mm	Attachment	ALUMINIUM FRAME	Current at Max Power	Ip	1.5	A
Scale: 1:25	Sheet: 5/5			Maximum Power	Wp	25	W

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