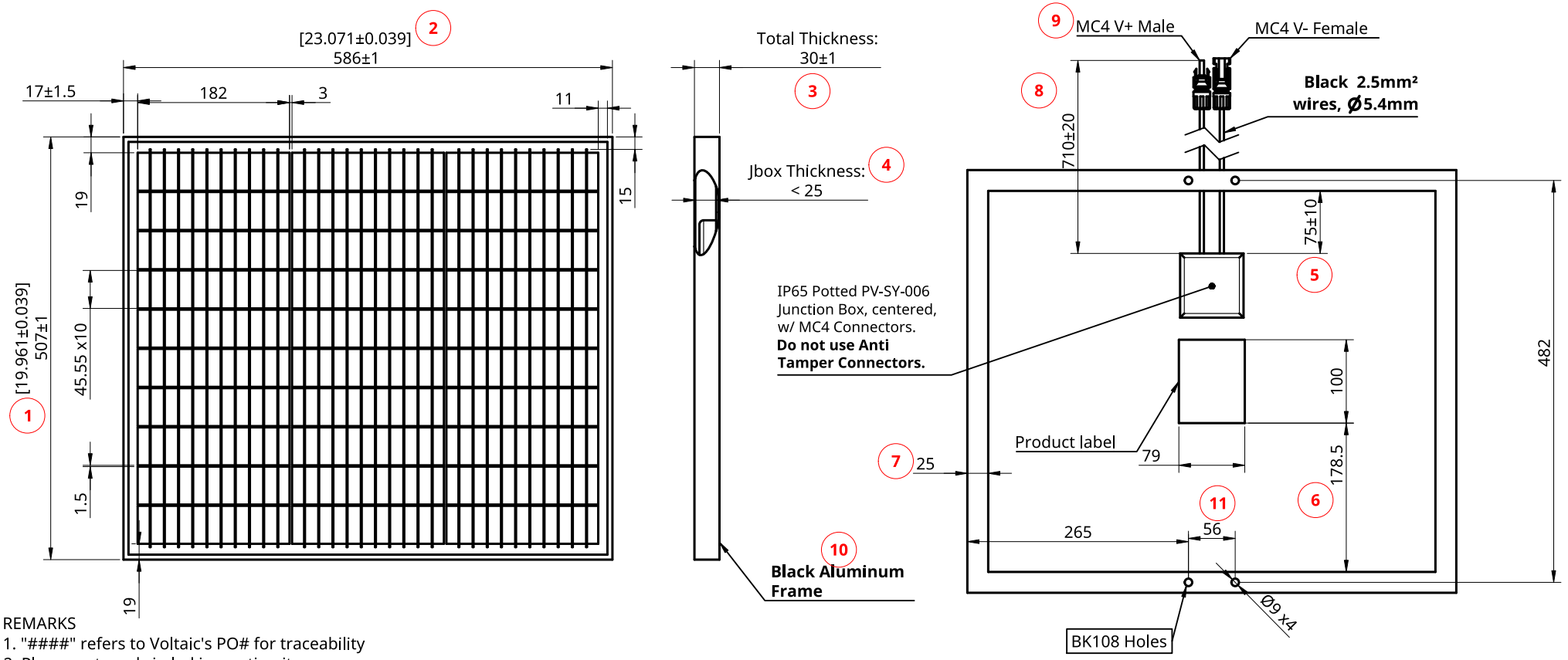


REMARKS
1. "####" refers to Voltaic's PO# for traceability
2. Please note red circled inspection items

Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P150	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R5A	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	3.3	A
Tolerance: ±0.3 mm	Units: mm	Strain Relief	J-BOX	Current at Max Power	Ip	3	A
Scale: 1:7	Sheet: 1/4	Attachment	BLACK ALUMINIUM FRAME	Maximum Power	Wp	50	W

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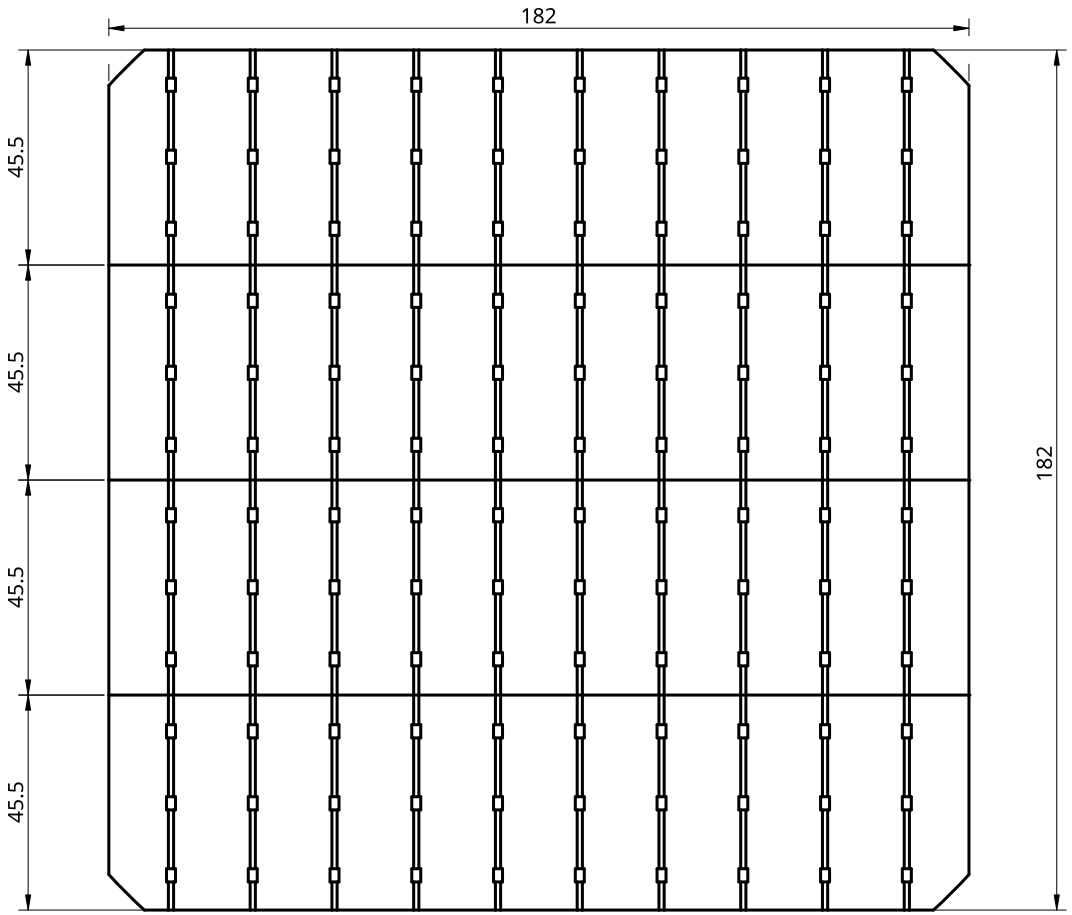
Voltaic

Model Number	P150 R5A
Number of cell pieces	30
Open Circuit Voltage (Voc)	19.6 V
Max Power Point Voltage (Vp)	16.9 V
Short Circuit Current (Isc)	3.3 A
Max Power Point Current (Ip)	3 A
Max Power (Wp)	50 W

Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P150	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R5A	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	3.3	A
Tolerance: ±0.3 mm	Units: mm	Attachment	ALUMINIUM FRAME	Current at Max Power	Ip	3	A
Scale: 1:25	Sheet: 2/4			Maximum Power	Wp	50	W

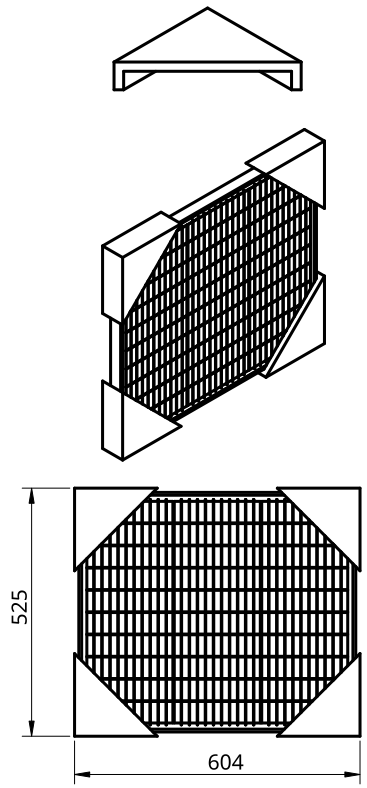
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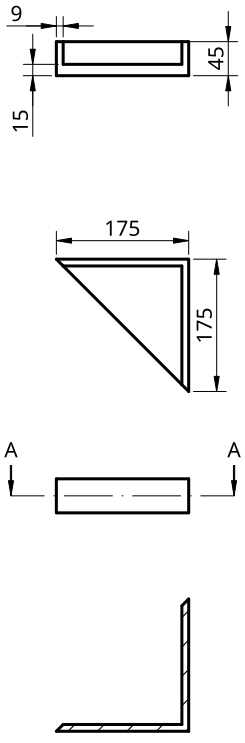
Voltaic

Cell Cut Diagram	
Cell	EUROPEAN MONOCRYSTALLINE M182 10BB
Cell Efficiency	≥23.2%
Panel Reference	P150
Panel Revision	R5A
Date Created	2021-02-03
Date Modified	2025-06-26
Approval	SM 2025-06-26
Tolerance: ±0.3 mm	Units: mm
Scale: 1:1.6	Sheet: 3/4

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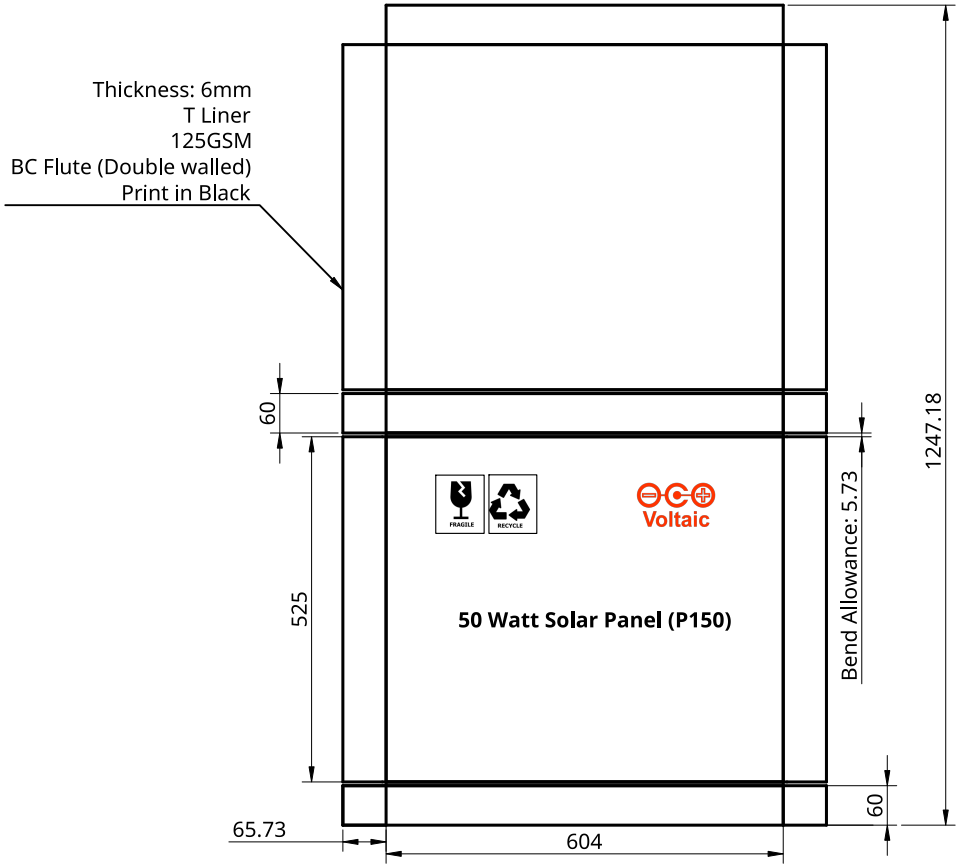


Panel with Protective Corner Piece



A - A

Protective Corner Piece:
EPE Foam/Cardboard base



:

Voltaic

Drawing Details		Construction		Power Specifications			
Panel Number	P150	All Materials RoHS Compliant		Output Tolerance: ± 10% of Voltage and Current			
Revision	R5A	Substrate	BLACK KPF	Solar Cell: EUROPEAN MONOCRYSTALLINE M182 10BB			
Engineer	AK	Encapsulant	EVA F806P	Nominal Efficiency: ≥23.2	Cell Pieces:	30	
Checked By	SM	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	3.3	A
Tolerance: ±0.3 mm	Units: mm	Attachment	ALUMINIUM FRAME	Current at Max Power	Ip	3	A
Scale: 1:25	Sheet: 4/4			Maximum Power	Wp	50	W

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