



# TECHNICAL DATA - GL.01

PHOTOVOLTAIC GLASS		978 x 3007
	L	Vision (20%)
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	100	P <sub>mpp</sub> (Wp)
Open-circuit voltage	234	V <sub>oc</sub> (V)
Short-circuit current	0,76	I <sub>sc</sub> (A)
Voltage at nominal power	161	V <sub>mpp</sub> (V)
Current at nominal power	0,62	I <sub>mpp</sub> (A)
Power tolerance not to exceed	± 5	%
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	978	mm
Width	3007	mm
Thickness	18,24	mm
Surface area	2,94	sqm
Weight	112	Kgs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Thickness encapsulation	1,52 mm	PVB Foils (x2)
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>	
<b>Limits</b>		
Maximum system voltage	1000	V <sub>sys</sub> (V)
Operating module temperature	-40...+85	°C
Max. Series Fuse	3	A
<b>Temperature Coefficients</b>		
Temperature Coefficient of P <sub>mpp</sub>	-0,19	%/°C
Temperature Coefficient of V <sub>oc</sub>	-0,28	%/°C
Temperature Coefficient of I <sub>sc</sub>	+0,09	%/°C

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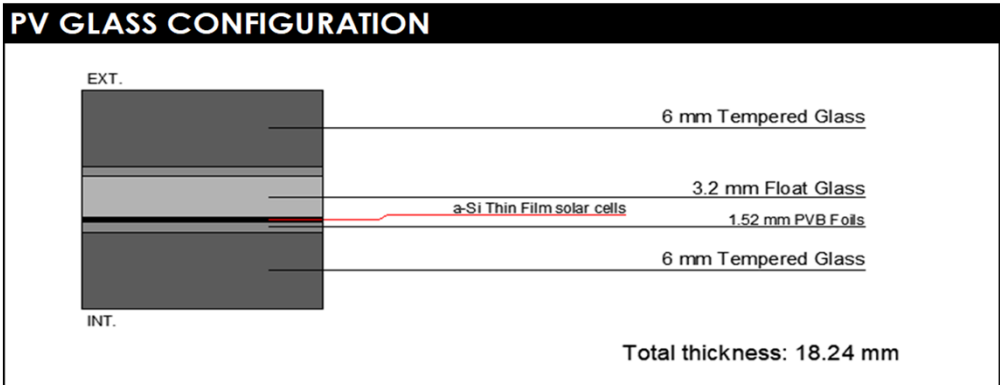
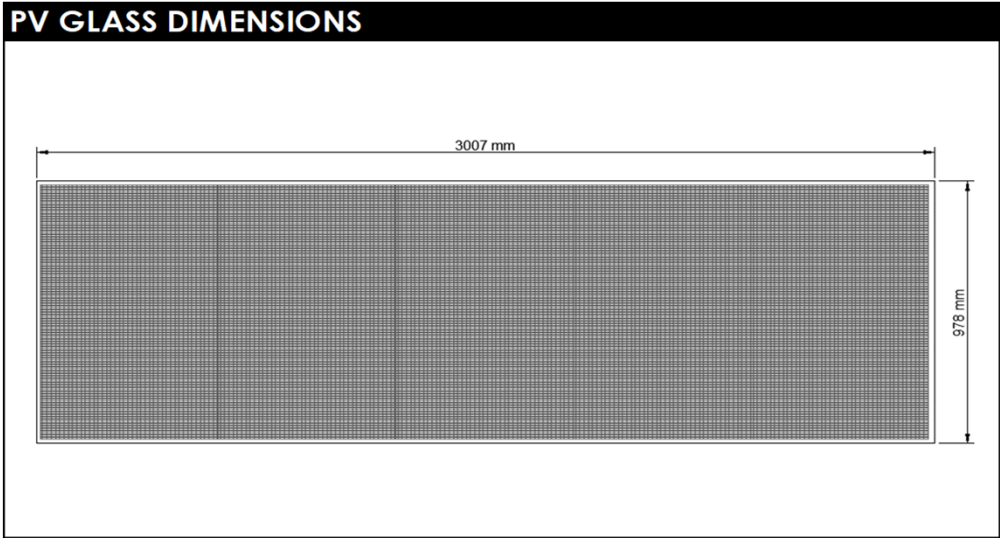
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# TECHNICAL DATA - GL.01



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.02

<b>PHOTOVOLTAIC GLASS</b>		<b>886 x 3007</b>
	<b>L</b>	<b>Vision (20%)</b>
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	91	P <sub>mpp</sub> (Wp)
Open-circuit voltage	234	V <sub>oc</sub> (V)
Short-circuit current	0,69	I <sub>sc</sub> (A)
Voltage at nominal power	161	V <sub>mpp</sub> (V)
Current at nominal power	0,56	I <sub>mpp</sub> (A)
Power tolerance not to exceed	± 5	%
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	886	mm
Width	3007	mm
Thickness	18,24	mm
Surface area	2,66	sqm
Weight	101	Kgs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Thickness encapsulation	1,52 mm	PVB Foils (x2)
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>	
<b>Limits</b>		
Maximum system voltage	1000	V <sub>sys</sub> (V)
Operating module temperature	-40...+85	°C
Max. Series Fuse	3	A
<b>Temperature Coefficients</b>		
Temperature Coefficient of P <sub>mpp</sub>	-0,19	%/°C
Temperature Coefficient of V <sub>oc</sub>	-0,28	%/°C
Temperature Coefficient of I <sub>sc</sub>	+0,09	%/°C

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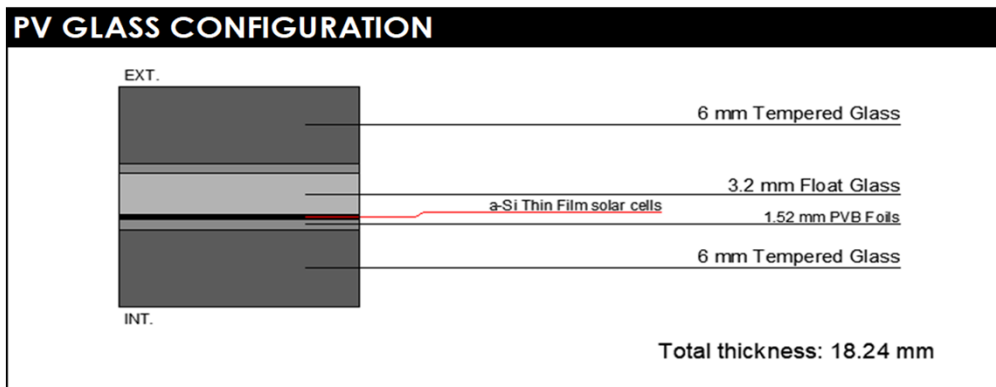
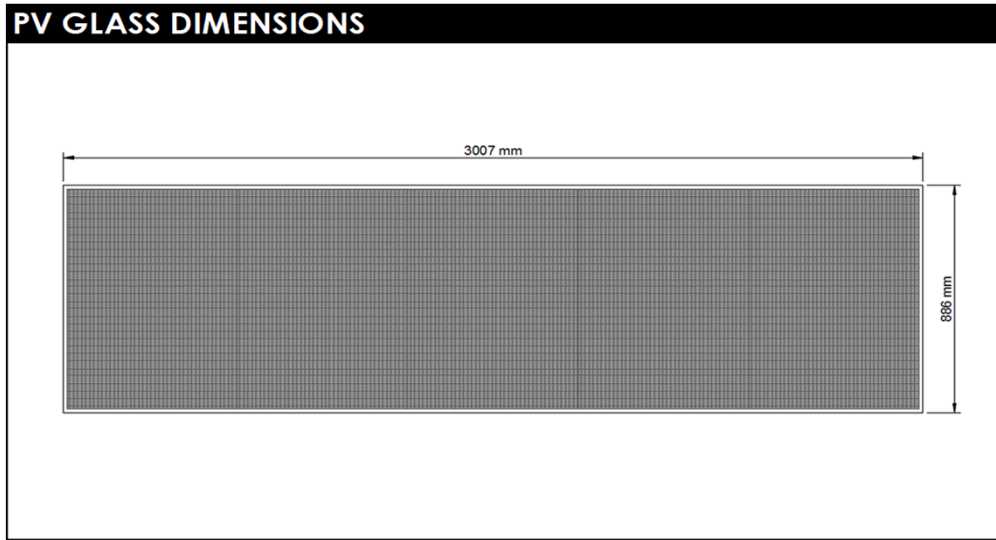
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# TECHNICAL DATA - GL.02



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.03

PHOTOVOLTAIC GLASS		1054 x 3007
	L	Vision (20%)
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	108	P <sub>mpp</sub> (Wp)
Open-circuit voltage	234	V <sub>oc</sub> (V)
Short-circuit current	0,82	I <sub>sc</sub> (A)
Voltage at nominal power	161	V <sub>mpp</sub> (V)
Current at nominal power	0,67	I <sub>mpp</sub> (A)
Power tolerance not to exceed	± 5	%
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	1054	mm
Width	3007	mm
Thickness	18,24	mm
Surface area	3,17	sqm
Weight	120	Kgs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Thickness encapsulation	1,52 mm	PVB Foils (x2)
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>	
<b>Limits</b>		
Maximum system voltage	1000	V <sub>sys</sub> (V)
Operating module temperature	-40...+85	°C
Max. Series Fuse	3	A
<b>Temperature Coefficients</b>		
Temperature Coefficient of P <sub>mpp</sub>	-0,19	%/°C
Temperature Coefficient of V <sub>oc</sub>	-0,28	%/°C
Temperature Coefficient of I <sub>sc</sub>	+0,09	%/°C

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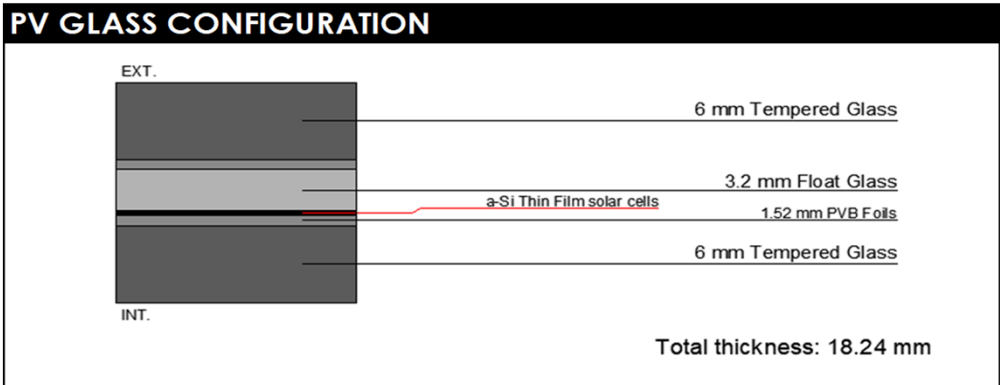
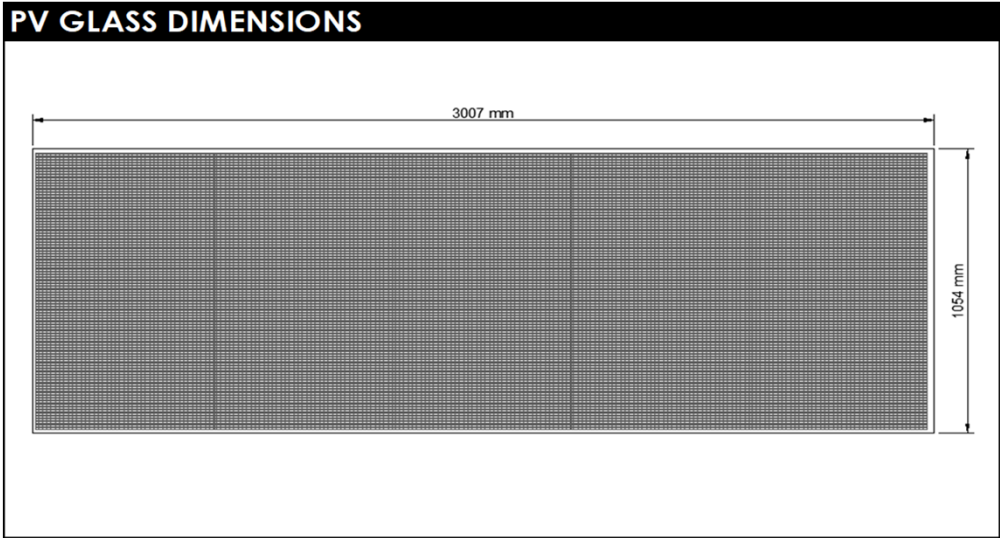
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# TECHNICAL DATA - GL.03



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.04

<b>PHOTOVOLTAIC GLASS</b>		<b>1064 x 3007</b>	
	<b>L</b>	<b>Vision (20%)</b>	
<b>Electrical data test conditions (STC)</b>			
Nominal peak power	109	P <sub>mpp</sub> (Wp)	
Open-circuit voltage	234	V <sub>oc</sub> (V)	
Short-circuit current	0,83	I <sub>sc</sub> (A)	
Voltage at nominal power	161	V <sub>mpp</sub> (V)	
Current at nominal power	0,68	I <sub>mpp</sub> (A)	
Power tolerance not to exceed	± 5	%	
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
<b>Mechanical description</b>			
Length	1064	mm	
Width	3007	mm	
Thickness	18,24	mm	
Surface area	3,20	sqm	
Weight	122	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	L	Vision (20%)	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Thickness encapsulation	1,52 mm	PVB Foils (x2)	
<b>Junction Box</b>			
Protection	IP65		
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>		
<b>Limits</b>			
Maximum system voltage	1000	V <sub>sys</sub> (V)	
Operating module temperature	-40...+85	°C	
Max. Series Fuse	3	A	
<b>Temperature Coefficients</b>			
Temperature Coefficient of Pmpp	-0,19	% / °C	
Temperature Coefficient of Voc	-0,28	% / °C	
Temperature Coefficient of Isc	+0,09	% / °C	

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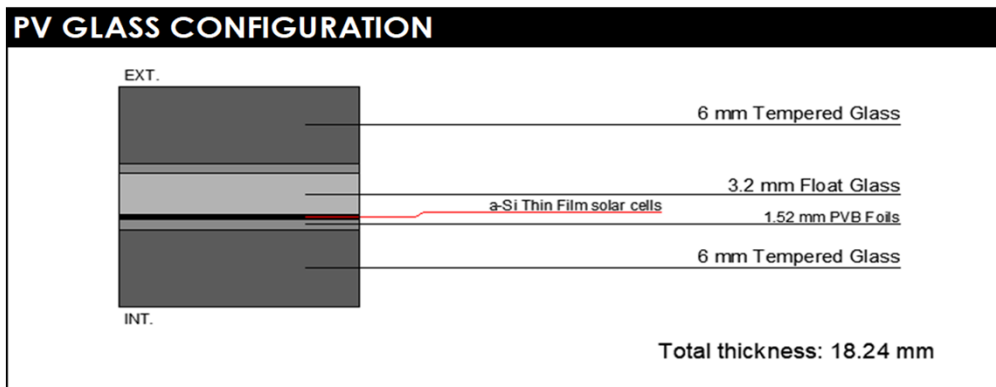
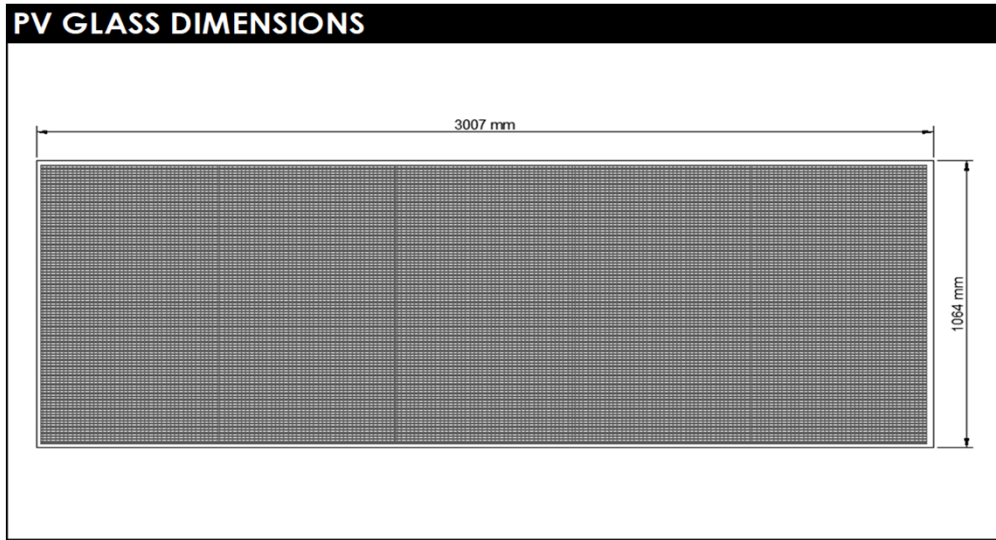
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# TECHNICAL DATA - GL.04



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.05

PHOTOVOLTAIC GLASS		1314 x 3007
	L	Vision (20%)
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	134	P <sub>mpp</sub> (Wp)
Open-circuit voltage	234	V <sub>oc</sub> (V)
Short-circuit current	1,02	I <sub>sc</sub> (A)
Voltage at nominal power	161	V <sub>mpp</sub> (V)
Current at nominal power	0,83	I <sub>mpp</sub> (A)
Power tolerance not to exceed	± 5	%
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	1314	mm
Width	3007	mm
Thickness	18,24	mm
Surface area	3,95	sqm
Weight	150	Kgs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Thickness encapsulation	1,52 mm	PVB Foils (x2)
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>	
<b>Limits</b>		
Maximum system voltage	1000	V <sub>sys</sub> (V)
Operating module temperature	-40...+85	°C
Max. Series Fuse	3	A
<b>Temperature Coefficients</b>		
Temperature Coefficient of P <sub>mpp</sub>	-0,19	%/°C
Temperature Coefficient of V <sub>oc</sub>	-0,28	%/°C
Temperature Coefficient of I <sub>sc</sub>	+0,09	%/°C

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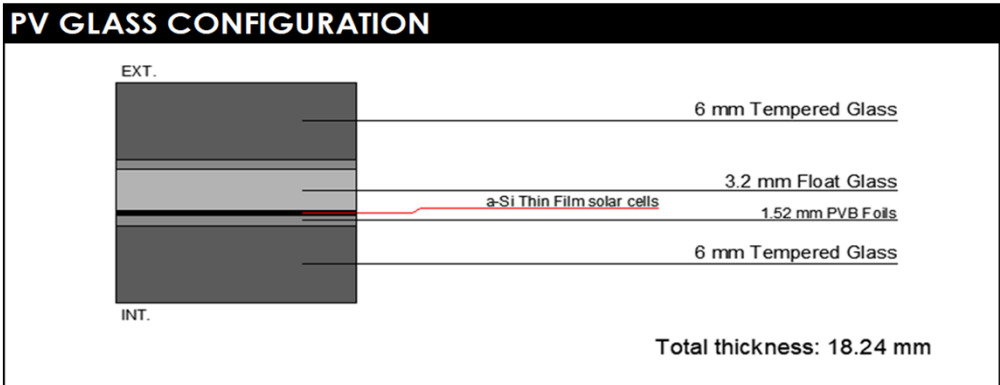
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# TECHNICAL DATA - GL.05



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.06

<b>PHOTOVOLTAIC GLASS</b>		<b>1496 x 3007</b>	
	<b>L</b>	<b>Vision (20%)</b>	
<b>Electrical data test conditions (STC)</b>			
Nominal peak power	153	P <sub>mpp</sub> (Wp)	
Open-circuit voltage	234	V <sub>oc</sub> (V)	
Short-circuit current	1,17	I <sub>sc</sub> (A)	
Voltage at nominal power	161	V <sub>mpp</sub> (V)	
Current at nominal power	0,95	I <sub>mpp</sub> (A)	
Power tolerance not to exceed	± 5	%	
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
<b>Mechanical description</b>			
Length	1496	mm	
Width	3007	mm	
Thickness	18,24	mm	
Surface area	4,50	sqm	
Weight	171	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	L	Vision (20%)	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Thickness encapsulation	1,52 mm	PVB Foils (x2)	
<b>Junction Box</b>			
Protection	IP65		
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>		
<b>Limits</b>			
Maximum system voltage	1000	V <sub>sys</sub> (V)	
Operating module temperature	-40...+85	°C	
Max. Series Fuse	3	A	
<b>Temperature Coefficients</b>			
Temperature Coefficient of P <sub>mpp</sub>	-0,19	% / °C	
Temperature Coefficient of V <sub>oc</sub>	-0,28	% / °C	
Temperature Coefficient of I <sub>sc</sub>	+0,09	% / °C	

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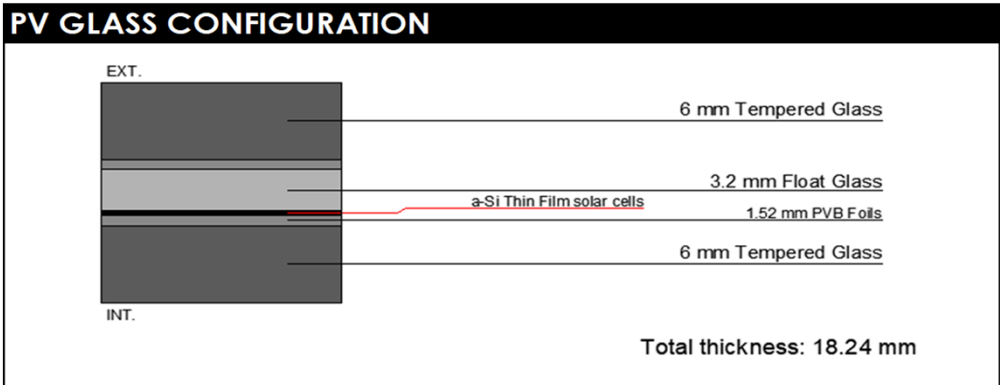
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# TECHNICAL DATA - GL.06



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.07

PHOTOVOLTAIC GLASS		1597 x 3007
	L	Vision (20%)
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	163	P <sub>mpp</sub> (Wp)
Open-circuit voltage	234	V <sub>oc</sub> (V)
Short-circuit current	1,24	I <sub>sc</sub> (A)
Voltage at nominal power	161	V <sub>mpp</sub> (V)
Current at nominal power	1,01	I <sub>mpp</sub> (A)
Power tolerance not to exceed	± 5	%
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	1597	mm
Width	3007	mm
Thickness	18,24	mm
Surface area	4,80	sqm
Weight	182	Kgs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Thickness encapsulation	1,52 mm	PVB Foils (x2)
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>	
<b>Limits</b>		
Maximum system voltage	1000	V <sub>sys</sub> (V)
Operating module temperature	-40...+85	°C
Max. Series Fuse	3	A
<b>Temperature Coefficients</b>		
Temperature Coefficient of P <sub>mpp</sub>	-0,19	%/°C
Temperature Coefficient of V <sub>oc</sub>	-0,28	%/°C
Temperature Coefficient of I <sub>sc</sub>	+0,09	%/°C

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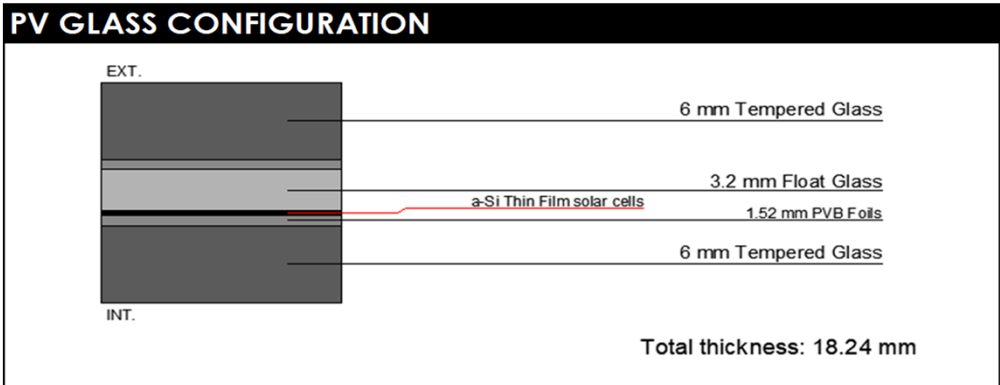
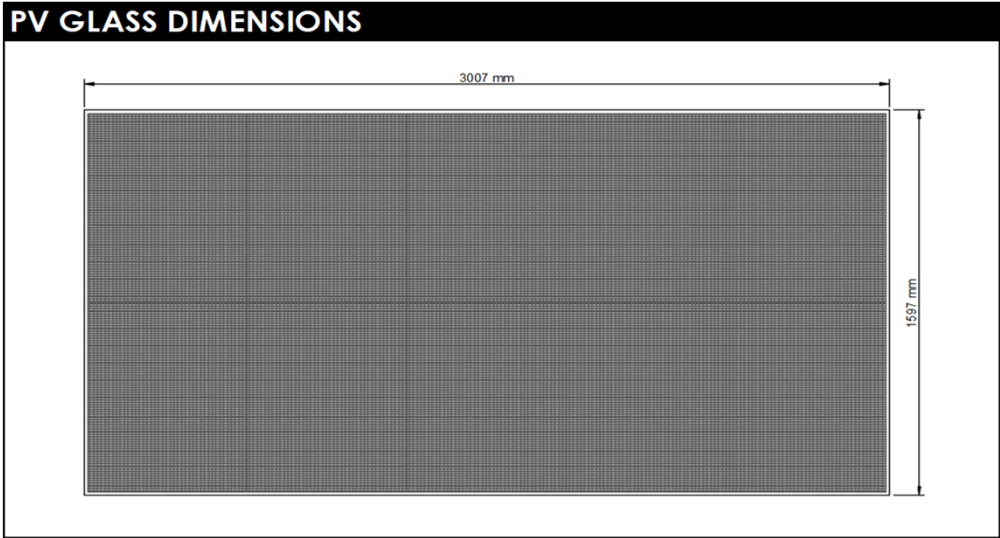
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# TECHNICAL DATA - GL.07



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.08

<b>PHOTOVOLTAIC GLASS</b>		<b>1496 x 2268</b>
	<b>L</b>	<b>Vision (20%)</b>
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	115	$P_{mpp}$ (Wp)
Open-circuit voltage	177	$V_{oc}$ (V)
Short-circuit current	1,17	$I_{sc}$ (A)
Voltage at nominal power	121	$V_{mpp}$ (V)
Current at nominal power	0,95	$I_{mpp}$ (A)
Power tolerance not to exceed	± 5	%
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	1496	mm
Width	2268	mm
Thickness	18,24	mm
Surface area	3,39	sqm
Weight	129	Kgs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	6 mm	Tempered Glass
PV Active Glass	3,2 mm	Float Glass
Rear Glass	6 mm	Tempered Glass
Thickness encapsulation	1,52 mm	PVB Foils (x2)
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>	
<b>Limits</b>		
Maximum system voltage	1000	$V_{sys}$ (V)
Operating module temperature	-40...+85	°C
Max. Series Fuse	3	A
<b>Temperature Coefficients</b>		
Temperature Coefficient of Pmpp	-0,19	%/°C
Temperature Coefficient of Voc	-0,28	%/°C
Temperature Coefficient of Isc	+0,09	%/°C

\* All technical specifications are subject to change without notice by Onyx Solar



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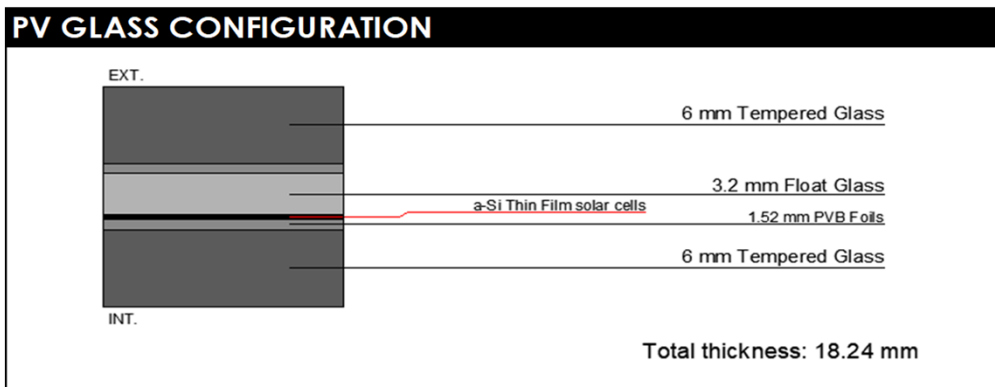
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# TECHNICAL DATA - GL.08



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	32.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [W/sqm.K]	5,1
Peak Power [Wp/sqm]	34,0



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# TECHNICAL DATA - GL.09

<b>PHOTOVOLTAIC GLASS</b>		<b>1597 x 2145</b>	
	<b>L</b>	<b>Vision (20%)</b>	
<b>Electrical data test conditions (STC)</b>			
Nominal peak power	116	P <sub>mpp</sub> (Wp)	
Open-circuit voltage	167	V <sub>oc</sub> (V)	
Short-circuit current	1,24	I <sub>sc</sub> (A)	
Voltage at nominal power	115	V <sub>mpp</sub> (V)	
Current at nominal power	1,01	I <sub>mpp</sub> (A)	
Power tolerance not to exceed	± 5	%	
STC: 1000 w/m <sup>2</sup> , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
<b>Mechanical description</b>			
Length	1597	mm	
Width	2145	mm	
Thickness	18,24	mm	
Surface area	3,43	sqm	
Weight	130	Kgs	
Cell type	a-Si	Thin Film	
Transparency degree	L	Vision (20%)	
Front Glass	6 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	6 mm	Tempered Glass	
Thickness encapsulation	1,52 mm	PVB Foils (x2)	
<b>Junction Box</b>			
Protection	IP65		
Wiring Section	2,5 mm <sup>2</sup> or 4,0 mm <sup>2</sup>		
<b>Limits</b>			
Maximum system voltage	1000	V <sub>sys</sub> (V)	
Operating module temperature	-40...+85	°C	
Max. Series Fuse	3	A	
<b>Temperature Coefficients</b>			
Temperature Coefficient of P <sub>mpp</sub>	-0,19	% / °C	
Temperature Coefficient of V <sub>oc</sub>	-0,28	% / °C	
Temperature Coefficient of I <sub>sc</sub>	+0,09	% / °C	

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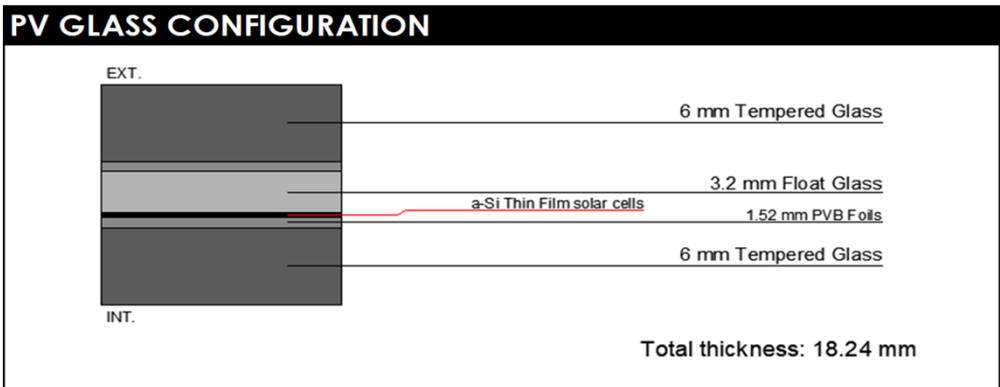
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