



# TECHNICAL DATA - GL.01

<b>PHOTOVOLTAIC GLASS</b>		<b>54 x 136</b>
GL-4A-1	<b>L</b>	<b>Vision (20%)</b>
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	159	P <sub>mpp</sub> (Wp)
Open-circuit voltage	268.55	V <sub>oc</sub> (V)
Short-circuit current	1.06	I <sub>sc</sub> (A)
Voltage at nominal power	184.46	V <sub>mpp</sub> (V)
Current at nominal power	0.86	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	54	inches
Width	136	inches
Thickness	1.69	inches
Surface area	50.49	sqf
Weight	703	Lbs
Cell type	a-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	1/4"	Tempered Glass
PV Active Glass	1/8 "	Float Glass
Rear Glass	1/4"	Tempered Glass
Gas Spacer	1/2"	Air Chamber
Inner Glass	1/4"	Tempered Glass Low-e
Inner Glass	1/4"	Tempered Glass
Thickness encapsulation	3,04 mm	PVB Foils
Category / Color code		
<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
<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

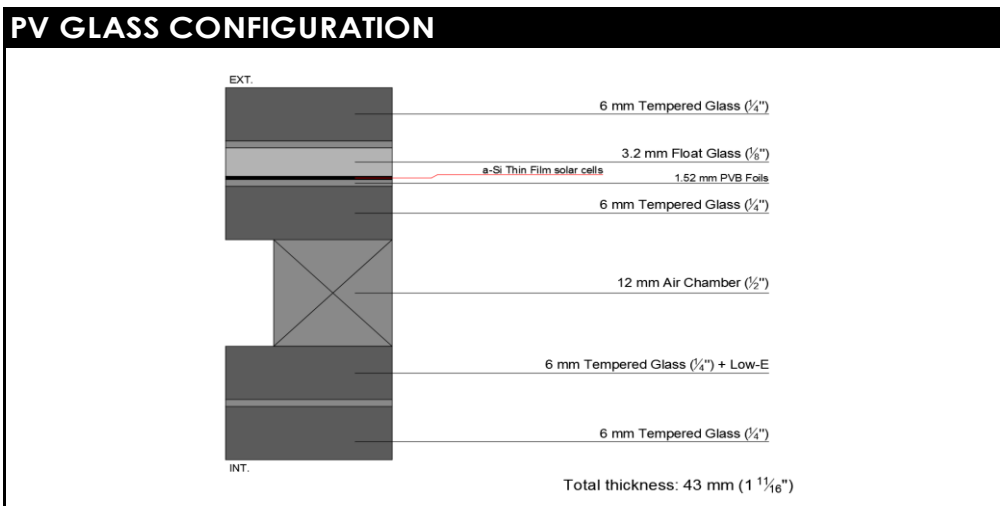
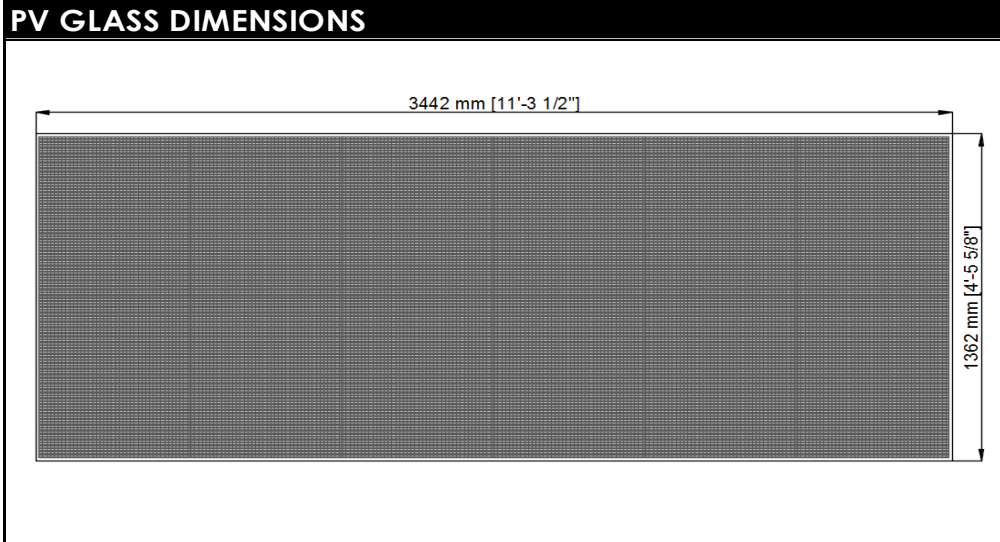
\* All technical specifications are subject to change without notice by Onyx Solar

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# TECHNICAL DATA - GL.01



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	12.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [Btu/h ft <sup>2</sup> °F]	0.21
Peak Power [Wp/sqf]	3.2

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# TECHNICAL DATA - GL.02

<b>PHOTOVOLTAIC GLASS</b>		<b>54 x 119</b>
GL-4A-2		<b>L Vision (20%)</b>
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	140	P <sub>mpp</sub> (Wp)
Open-circuit voltage	236.12	V <sub>oc</sub> (V)
Short-circuit current	1.06	I <sub>sc</sub> (A)
Voltage at nominal power	162.18	V <sub>mpp</sub> (V)
Current at nominal power	0.86	I <sub>mpp</sub> (A)
Power tolerance not to exceed	±5	%
STC: 1000 w/m², AM 1.5 and a cell temperature of 25°C, stabilized module state.		
<b>Mechanical description</b>		
Length	54	inches
Width	119	inches
Thickness	1.69	inches
Surface area	44.39	sqf
Weight	618	Lbs
Cell type	α-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	1/4"	Tempered Glass
PV Active Glass	1/8 "	Float Glass
Rear Glass	1/4"	Tempered Glass
Gas Spacer	1/2"	Air Chamber
Inner Glass	1/4"	Tempered Glass Low-e
Inner Glass	1/4"	Tempered Glass
Thickness encapsulation	3,04 mm	PVB Foils
Category / Color code		
<b>Junction Box</b>		
Protection	IP65	
Wiring Section	2,5 mm² or 4,0 mm²	
<b>Limits</b>		
Maximum system voltage	1000	V <sub>sys</sub> (V)
Operating module temperature	-40...+85	°C
<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

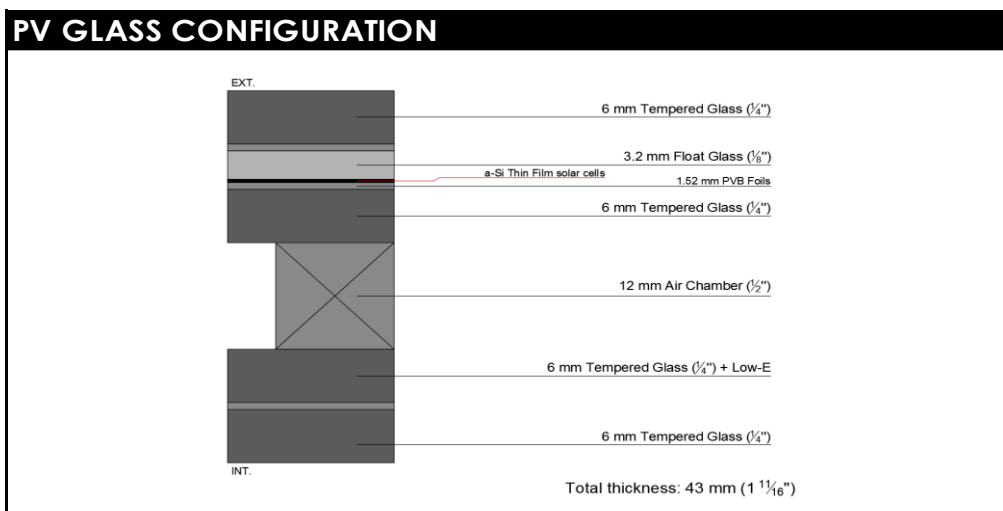
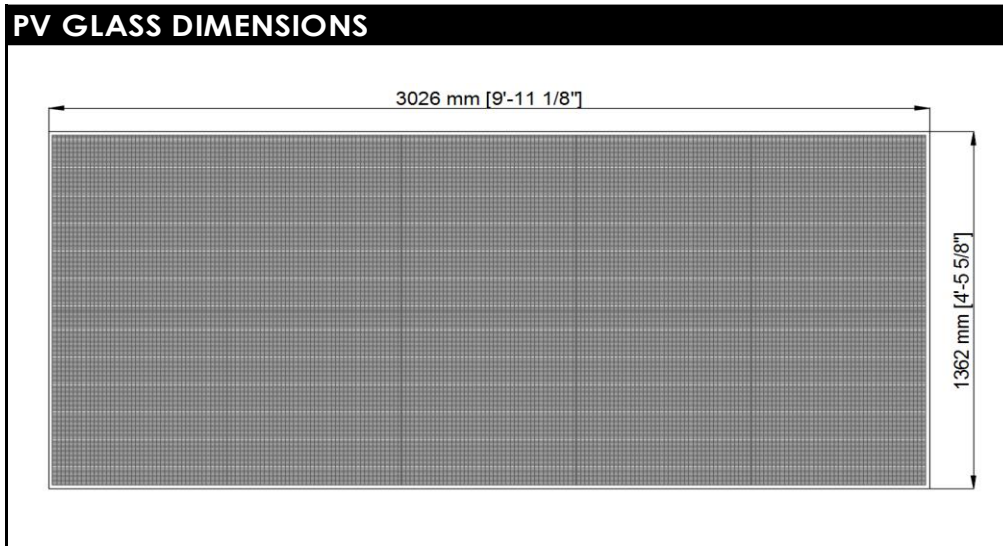
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# TECHNICAL DATA - GL.02



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	12.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [Btu/h ft <sup>2</sup> °F]	0.21
Peak Power [Wp/sqf]	3.2

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# TECHNICAL DATA - GL.03

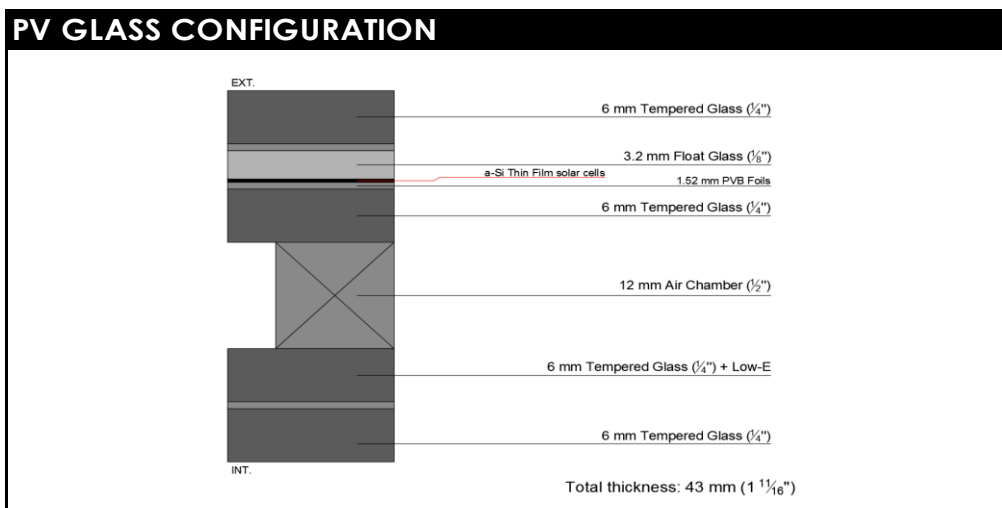
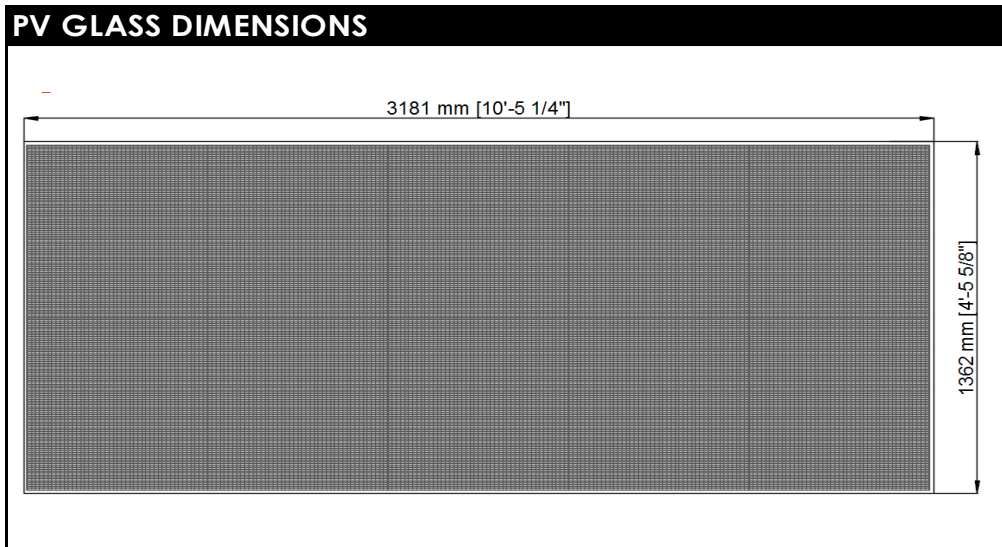
<b>PHOTOVOLTAIC GLASS</b>		<b>54 x 125</b>
GL-4A-3		<b>L Vision (20%)</b>
<b>Electrical data test conditions (STC)</b>		
Nominal peak power	147	P <sub>mpp</sub> (Wp)
Open-circuit voltage	247.97	V <sub>oc</sub> (V)
Short-circuit current	1.06	I <sub>sc</sub> (A)
Voltage at nominal power	170.32	V <sub>mpp</sub> (V)
Current at nominal power	0.86	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	54	inches
Width	125	inches
Thickness	1.69	inches
Surface area	46.62	sqf
Weight	650	Lbs
Cell type	α-Si	Thin Film
Transparency degree	L	Vision (20%)
Front Glass	1/4"	Tempered Glass
PV Active Glass	1/8 "	Float Glass
Rear Glass	1/4"	Tempered Glass
Gas Spacer	1/2"	Air Chamber
Inner Glass	1/4"	Tempered Glass Low-e
Inner Glass	1/4"	Tempered Glass
Thickness encapsulation	3,04 mm	PVB Foils
Category / Color code		
<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
<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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# TECHNICAL DATA - GL.03



GLASS PROPERTIES	Onyx Equivalent Glass
Solar Factor/SHGC	12.00%
Light Transmission	16.30%
UV Transmission	< 1%
Light Reflection	8%
U-value [Btu/h ft <sup>2</sup> °F]	0.21
Peak Power [Wp/sqf]	3.2

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