

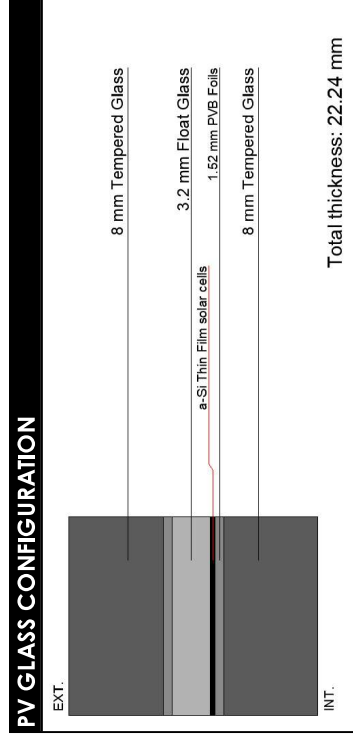
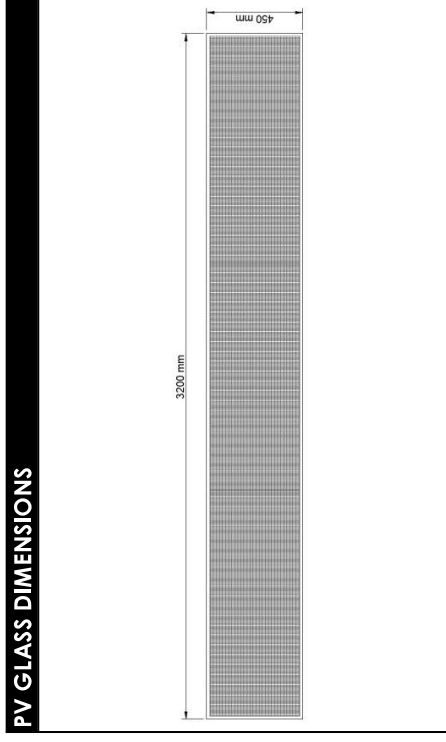
AMORPHOUS SILICON

DATA SHEET - GL.01



PHOTOVOLTAIC GLASS		3200 x 450	
Electrical data test conditions (STC)		L	Vision (20%)
Nominal peak power	49	P_{mp} [Wp]	
Open-circuit voltage	35	V_{oc} [V]	
Short-circuit current	2,49	I_{sc} [A]	
Voltage at nominal power	24	V_{mp} [V]	
Current at nominal power	2,03	I_{mp} [A]	
Power tolerance not to exceed	±5	%	
STC: 1000 W/m^2 , AM 1.5 and a cell temperature of 25°C, stabilized module state.			
Mechanical description			
Length	3200	mm	
Width	450	mm	
Thickness	22,24	mm	
Surface area	1,44	sqm	
Weight	69	Kgs	
Cell type	α -Si	Thin Film	
Transparency degree	L	Vision (20%)	
Front Glass	8 mm	Tempered Glass	
PV Active Glass	3,2 mm	Float Glass	
Rear Glass	8 mm	Tempered Glass	
Thickness encapsulation	1,52 mm	PVB Folls (x2)	
Category / Color code			
Junction Box			
Protection	IP65		
Wiring Section	2,5 mm ² or 4,0 mm ²		
Limits			
Maximum system voltage	1000	V_{sys} [V]	
Operating module temperature	-40...+85	°C	
Max. Series Fuse	3	A	
Temperature Coefficients			
Temperature Coefficient of P_{mp}	-0,19	%/°C	
Temperature Coefficient of V_{oc}	-0,28	%/°C	
Temperature Coefficient of I_{sc}	+0,09	%/°C	

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



GLASS PROPERTIES

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