GLB Smart GLASS Catalogue





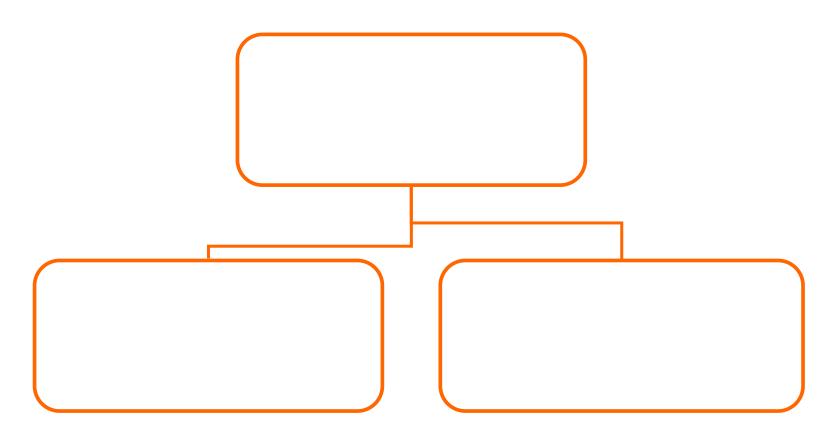




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- Full Service Supplier
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- Packaging and Shipping





GLB

CERTIFICATIONS





















List of Machineries & Equipments

Advanced PDLC Film Production Line











List of Machineries & Equipments

Smart Glass Production Equipments









List of Machineries & Equipments

Smart Film Processing Workshop









Full Service Supplier

- In-house R&D team
 ODM and OEM Capacity
- Regular European Shipments
 Regular NA Shipments
 Regular Southern Asia shipments
- Worldwide Sales Network

 Dedicated Engineering Support

 24 hours On-line Service

Manufacture2-shift operation if necessary





- Payment Terms
 - 30% deposit T/T in advance and balance before shipment
- Quality Assurance
 - 3 years after assembly in projects
- Package Standard
 - 100% Plywood Pallets or Crates Standard Export Package

Smart Glass Description

GLB Smart glass, also named as Privacy Glass or Switchable Transparent Glass (STG), is a high intelligent functional glass, which has a special characteristic of switching between clear and opaque by voltage control. Coloful smart Film is also available.





Specification of Smart Film 01



BORUITO PDLC SMART FILM

Specification and Technical Data

PDLC膜 规格和技术参数表

Proportion	Subjects	Status	Non Self-	adhesive Sm	art Film	Self-adhesive Smart Film			
Properties	Subjects	Status	White	Light Grey	Black	White	Light Grey	Black	
	Visible Light	ON	>86%	>38%	>14%	>83%	>37%	>13%	
	可见光透光率	OFF	>6%	>6%	>6%	>6%	>6%	>6%	
	Transmission	ON	>80%	>37%	>14%	>78%	>36%	>13%	
	平行光透光率	OFF	<1%	<1%	<1%	<1%	<1%	<1%	
Optical Properties 光学参数	Haze 雾度	ON	<3.49%	<3.73%	<3.29%	<4.95%	<5.06%	<3.99%	
		OFF	>97%	>97%	>97%	>97%	>97%	>97%	
	Visual Angle 可视角度	ON	>150°	>150°	>150°	>150°	>150°	>150°	
	UV Blocking 紫外线阻隔率	ON/OFF	>99%	>99%	>99%	>99%	>99%	>99%	
	Heat Resistance 隔热系数	R/RO	0.8-1.1	0.8-1.1	0.8-1.1	0.8-1.1	0.8-1.1	0.8-1.1	
Electrical Properties 电学参数	Operating Voltage 工作电压	ON	48V-65V AC	48V-65V AC	48V-65V AC	48V-65V AC	48V-65V AC	48V-65V AC	
	Power Consumption PDLC 功耗	ON	<3W/m²	<3W/m²	<3W/m²	<3W/m²	<3W/m²	<3W/m²	
	A.C. Transformer 变压器功耗	ON	50W/SET	50W/SET	50W/SET	50W/SET	50W/SET	50W/SET	
也于多奴	Response Time	OFF-ON	<200ms	<200ms	<200ms	<200ms	<200ms	<200ms	
	响应时间	ON-OFF	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	
	Resistance uniformity 绝缘均性				≤ ±5%				





Specification of Smart Film 02



BORUITO PDLC SMART FILM

Specification and Technical Data

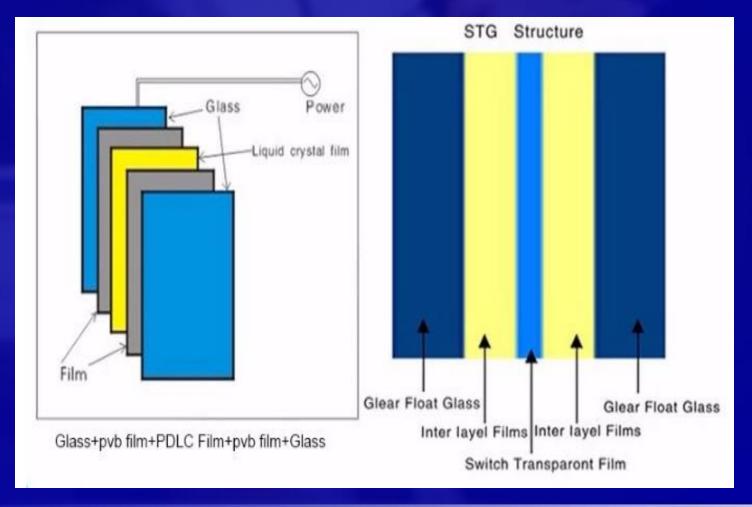
PDLC膜 规格和技术参数表

Properties	Subjects	Non Self-adhesive Smart Film		Self-adhesive Smart Film							
Properties	Subjects	Status	White	Light Grey	Black	White	Light Grey	Black			
	Thickness PDLC 厚度		0.35mm								
Specification	Hardcoat hardess 表面强度		≥30H								
	Max Size 最大尺寸	1500mm*6	500mm*60000mm/1200mm*60000mm/1000mm*60000mm/1500mm*30000mm/1200mm*30000mm								
物理参数	Color PDLC 颜色	Milk white, Light grey,Black									
	Life Time 使用寿命	>80000hrs									
	ON/OFF Times 开关次数	>2000000times									
Enviromental Parameter	Operating Temperature 工作温度	'-10°~~55°									
环境参数	Storage Temperature 储存温度	-40°~~90°									
Energy Saving 节能参数	Excellent Thermal Performance 保暖效果	Indoor and outdoor temperature difference 2℃~5℃ 室内外温差 2℃~5℃									





Composition Of Smart Glass





Smart Glass Power System













Glb Smart Film Standards and PSU Data

▶▶BORUITO Smart Film Grading Standard									
Grade Transmittance (only for white film)	Transmittance	nnsmittance a	Over-voltage Test	Fully Inspection	Defective Sp	Warranty (year)			
	Scratch-proof	(for piece electroded)	(inch by inch)	Boruito (0.5<φ≤1.5mm)	Industry (0.5<φ≤3mm)	Boruito	Industry		
s	≥86%	Yes	Yes	Yes	≤1	≤ 6	3	1	
Α	≥86%	Yes	No	Yes	€2	≤ 6	2	1	
В	≥83%	No	No	Sampling inspection	≤ 5	≤ 6	1	1	
Remar	k: Overvoltage test: Film								

47/60 TRANSFORMER

2. Defective spot: Including white spot and breakdown spot.

An instruction manual

《Product characteristics》

47/60 power transformer is an isolation transformer , it special use for smart glass. That is a kind of power frequency transformer, which has the advantages of no flicker, high safety, good isolation, simple structure, convenient in stallation, etc.. The power of this transformer from 30W-500W is available. Input voltage can be customized. The operating frequency is 50Hz/60Hz and the output voltage is selectable from AC48V-AC70V

[Electrical performance]

Rated power: 30W-500W (Product label show the power)

nput voltage: AC110V/220V 50Hz/60Hz

Output voltage: AC48V-AC70V (Product label show the voltage) Output current: 0.1A-10A

[[Instructions for user]]

1. Please note that the input voltage and frequency must be in line with the nominal value of the transformer.

2. This product is for indoor use only.

 Please don't cover the heat radiation hole of the product, avoiding to use in high temperature tide environment. [Attentions]

Please pay attention to the use of power and current shall not exceed the label nominal value, otherwise it will lead to damage on product.

[After-sale service]

Non-human damage quality problems, warranty for one year.

The warranty is not covered below: :

Damage caused by natural disaster such as flood, fire, etc.! 2. Damage caused by water inflow, liquid inflow, collision, and other

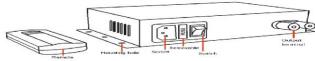
3.User do not in accordance to the instructions to use the product!

4. Artificial crash damage, disassemble products without permission or tear up product label.

[[Product selection]]

MODEL	POWER	INPUT	OUTPUT	SHELL
EEIO-C30/47	30W	110V/220V	48 V/50 V/60 V/70 V	47 Size
EE10-C40/47	40W	110 1/220	48 V/50 V/60 V/70 V	47 Size
EEIO-C50/47	50W	110V/220V	48 V/50 V/60 V/70 V	47 Size
EEIO-C60/47	60W	110 1/220	48 V/50 V/60 V/70 V	47 Size
EE10-C80/47	80W	110 1/220	48 V/50 V/60 V/70 V	47 Size
EEIO-C100/47	100W	110V/220V	48 \\ /50 \\ /60 \\ /70 \\	47 Size
EEIO-C150/47	150W	110V/220V	48V/50V/60V/70V	47 Size
EEIO-C200/60	200W	110V/220V	48V/50V/60V/70V	60 Size
EEIO-C250/60	250W	110V/220V	48V/50V/60V/70V	60 Size
EEIO-C300/60	300W	110 1/220	48 \\ /50 \\ /60 \\ /70 \\	60 Size
EEIO-C360/60	360W	110 1/2 20 1	48V/50V/60V/70V	60 Size
EEIO-C400/60	400W	110V/220V	48 \ \ / 50 \ \ / 60 \ \ / 70 \ \	60 Size
EEIO-C500/60	500W	110V/220V	48V/50V/60V/70V	60 Size

[[Installation Diagram]]

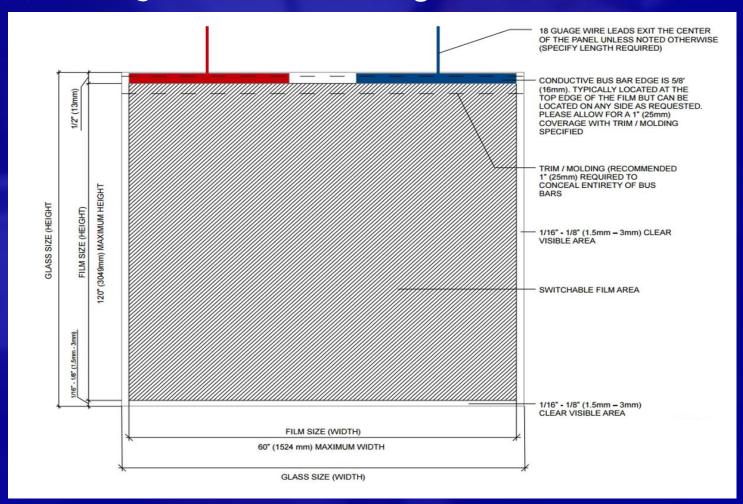


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Model	Size	Pitch-row	Aperture	Packing	QTY	Remote
47 Model	180*120*47	197*80	4*8	24.5*20.5*9	5pcs/ctn	Optional
60 Model	220*158*60	240*18	5*8	30*25*11.5	4pcs/ctn	Optional



Our Products for Smart Glass glb Smart Film Cutting Standards





>> Application of Smart Glass 01



Application of Smart Glass 02





Application of Smart Glass 03

Power on



Power off







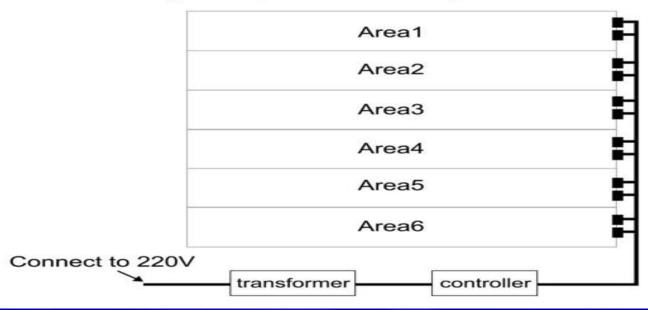
Partitioned Smart Film and Glass (Smart Blinds)

WHAT IS PARTITIONED SMART GLASS?

What is partition? Partition means to reasonably divide the liquid crystal layer inside the switchable glass into several independent areas through technical means, so as to realize the separate control of each area, so as to display the pattern of transparent or opaque effect.

Partitioned smart glass, which is still a piece of glass, but it is difficult to see the separation of the internal liquid crystal layer when it is transparent or opaque.Partition, can make regular pattern such as square, diamond, trapezoid, also can make the irregular pattern such as character and picture.

The circuit diagram of partitioned smart glass





Partitioned Smart Film and Glass (Smart Blinds)

Application of partitioned smart glass - Smart blinds glass

At present, our company provides two kinds of standard blinds width of 12cm and 8cm, the maximum number of the blinds is 128. The style divides horizontal bar, vertical bar and grid 3 kinds. Horizontal bars are normal, vertical bars and grids are customized. The image below shows the horizontal blinds effect.









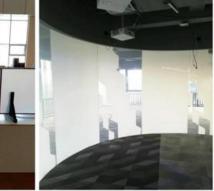


Partitioned Smart Film and Glass (Smart Blinds)

Application of partitioned smart glass - Customized pattern

Invariable partition effect is easy to make a person boring, but after making it partition control, in different time or scene can show different dynamic or static effect, let the whole space become more dynamic. Can be made into a variety of plants, animals, landscape, text or company LOGO and other patterns. Reasonable design, with different glass, so that the glass partition no longer invariable. It can also be made into various creative items, such as tables, billboards, lamps, etc.













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Partitioned Smart Film and Glass (Smart Blinds)

Application of partitioned smart glass - Customized pattern

The smart glass of customized pattern is special, from the choice of pattern to the control of the change mode, all need elaborate design. Each demander needs to make a different pattern, which requires the designer and demander to fully communicate and cooperate, so as to design a more perfect product.



transparent State 1



State 2 State 3



State 4 State 5



State 6 State 7

The partitioned smart glass application examples of our company





Smart Glass used in projection





正面投影



Packaging and Shipping



