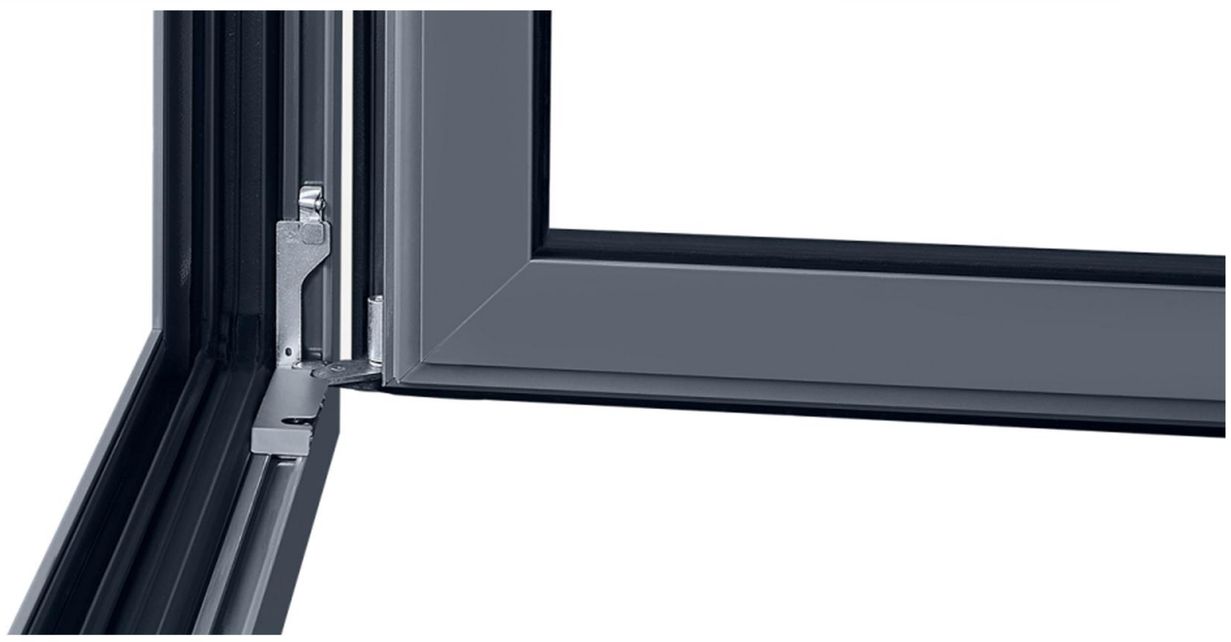
SAINTY Swing Window

Full name :Swing Window with Germany Hardware

- Sash weight up to 80 kg
- Dimensions up to 1000 mm wide and 1600 mm high.

The obvious difference with the 88 series is the two-way opening direction of the outer opening and the inner opening. The best three seals are adopted in sealing, thus ensuring the inimitable sound insulation and waterproof performance and high light transmittance.



Bottom pivot:
The power pack.

- High load-bearing capacity up to a sash weight of 150 kg without additional parts
- Very simple fixing with clamping screws
- Only four hinge side components for each window and a high degree of preassembly
- No additional frame parts and corner drives necessary
- The bottom hinge is kept clean thanks to an attractive cover cap

Top pivot:
The multi-talent.

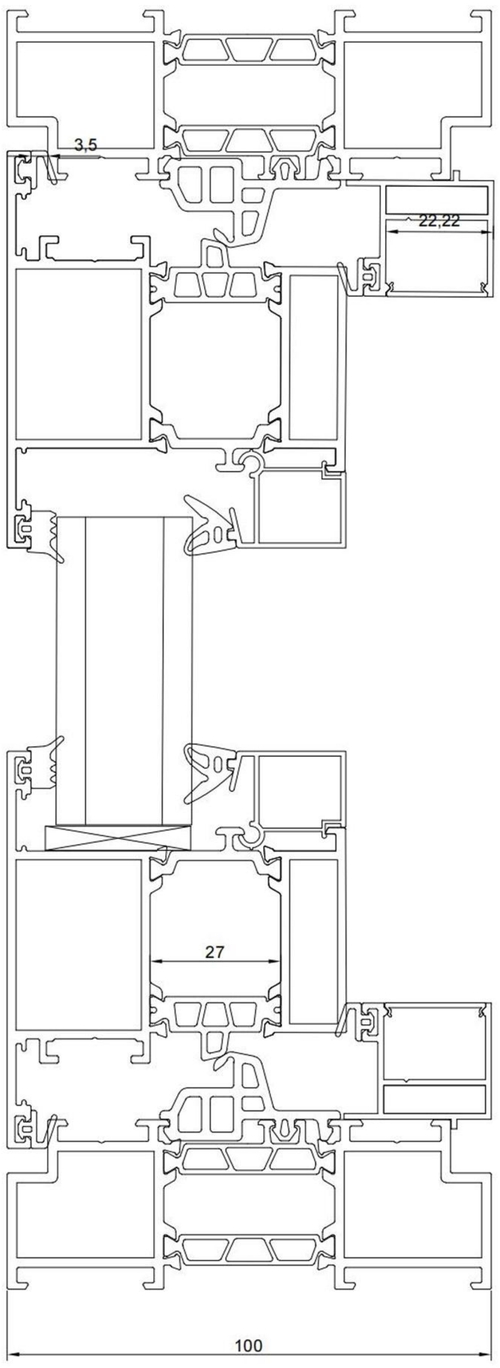
- Very simple fixing with clamping screws
- Sash is easy to fit in the slightly opened turn or tilt position
- Optimally accessible 3D-adjustment possibilities: Continuous pressure adjustment on the top and bottom pivot for optimal sealing
- Integrated locking point due to shoot bolt

More compression:
Less wear and tear.

- Completely concealed pivots for a perfect window design
- Particularly wear-resistant and durable
- Continuous seal and integrated pressure adjustment for more compression and increased thermal insulation
- Lasting high ease of use: Simple readjustment
- Can be used for PVC profiles and aluminium systems with a 16 mm hardware groove eurogroove, as well as for timber and timber-aluminium profiles with at least 24 mm rebate width

Certified by CE/AAMA/CSA

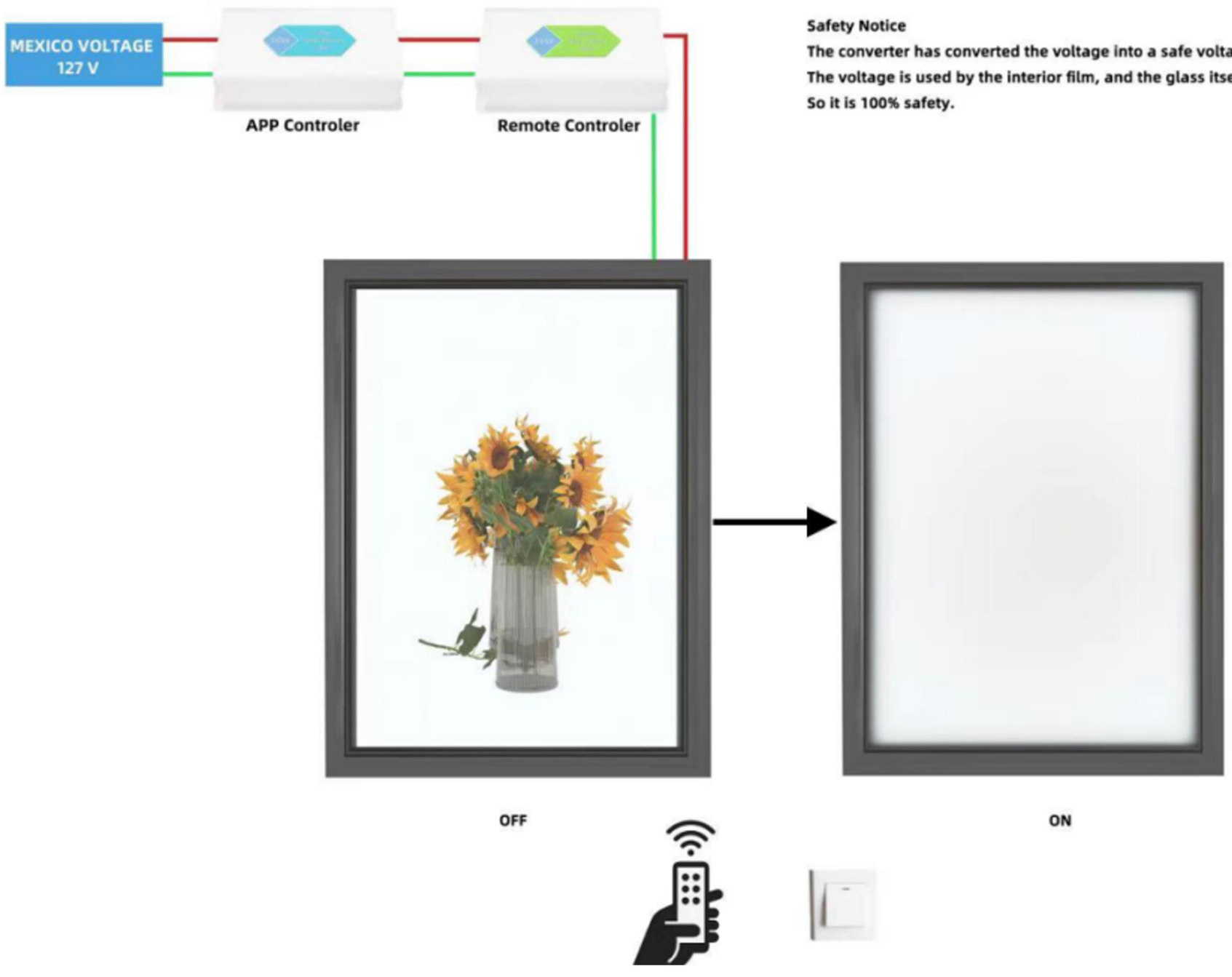
Test Description	Requirements		Results		Verdict
Air Leakage Resistance Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.2 ASTM E283/E283M-2019	Maximum air leakage at+75 Pa (1.57 psf)	No Requirement	Air leakage at +75 Pa (1.57 psf)	0.14 L/s·m2 (0.03 cfm/ft2)	Pass
	Maximum air leakage at-75 Pa (1.57 psf)	0.50 L/s·m2 (0.10 cfm/ft2)	Air leakage at -75 Pa (1.57 psf)	0.20 L/s·m2 (0.04 cfm/ft2)	
Air Leakage Resistance Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.2 ASTM E283/E283M-2019	Maximum air leakage at+300 Pa (6.27 psf)	0.50 L/s·m2 (0.10 cfm/ft2)	Air leakage at +300 Pa (6.27 psf)	0.27 L/s·m2 (0.05 cfm/ft2)	Pass
	Maximum air leakage at-300 Pa (6.27 psf)	No Requirement	Air leakage at -300 Pa (6.27 psf)	0.39 L/s·m2 (0.08 cfm/ft2)	
Water Penetration Resistance Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.3 ASTM E547-2000(R2016) & ASTM E331-2000(R2016)	Minimum water pressure	380 Pa (7.94 psf)	Test Pressure	380 Pa (7.94 psf)	Pass
			After water sprayed for four cycles in 24 minutes per ASTM E547 and then sprayed for 15 minutes per ASTM E331 at 380 Pa (7.94 psf), there was no water penetration.		
Uniform Load Deflection Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.4.2 ASTM E330/E330M-2014(R2021)	Minimum Design Pressure (DP)	1920 Pa (40.10 psf)	Design Pressure (DP)	1920 Pa (40.10 psf)	Pass
			Maximum deflection at Stile	0.2 mm (0.01 in.)	
			Maximum deflection at Rail at handle side	0.1 mm (<0.01 in.)	
Uniform Load Structural Test AAMA/WDMA/CSA1	Minimum Structural Pressure (STP)	2880 Pa (60.15 psf)	Structural Pressure (STP)	2880 Pa (60.15 psf)	Pass
			No significant breakage or damage		



The outer opening fan is a handle system with high quality multi-point locking structure, while the inner opening fan is a 98% visible invisible screen window. The obvious difference with the 88 series is the two-way opening direction of the outer opening and the inner opening. The best three seals are adopted in sealing, thus ensuring the inimitable sound insulation and waterproof performance and high light transmittance.

Double Glass With Blind Shutter Option

Smart Switchable Glass Option

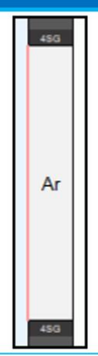
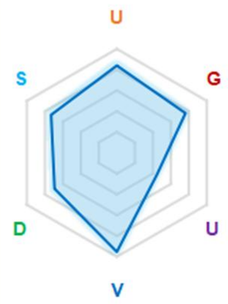
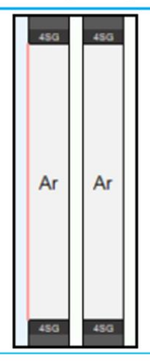
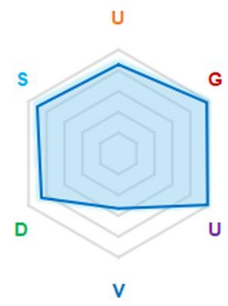
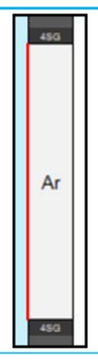
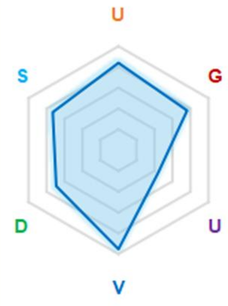
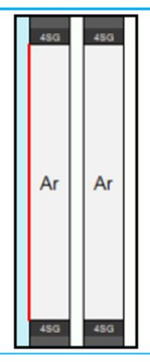
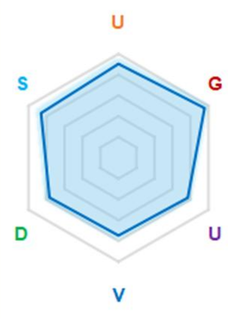
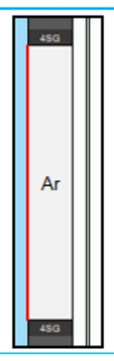
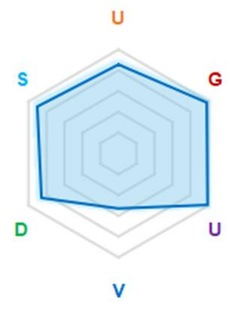
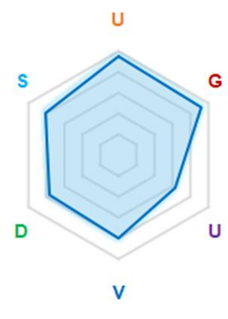
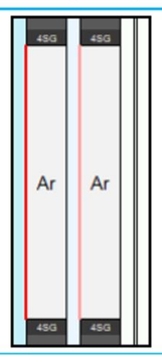
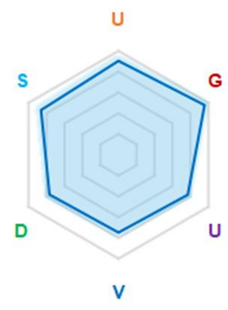


Safety Notice

The converter has converted the voltage into a safe voltage of 36 V

The voltage is used by the interior film, and the glass itself is already an insulator.

So it is 100% safety.

ITEM	Glass ID	Glass Structure	结构厚度	Thickness	U-Value Btu/(h· ft2· °F)	Infrared barrier GIR	Ultraviolet barrier UVR	Light transmittance VT	Sound insulation coefficient dB	Heat gain coefficient SHGC	Performance Scroe
①	Double-L		Glass 1 Space TPS Glass 2	5 12 5	0.243	76.3%	44.0%	81.0%	34.21	0.587	
		2 Glass,1 space	THK	22							Score 90
②	Triple-L		Glass 1 Space TPS Glass 2 Space TPS Glass 3	5 12 5 12 5	0.193	82.0%	55.0%	73.0%	36.79	0.538	
		3 Glass,2 space	THK	39							Score 93
③	Double-SL		Glass 1 Space TPS Glass 2	5 12 5	0.228	94.9%	72.0%	70.0%	33.21	0.402	
		2 Glass,1 space	THK	22							Score 96
④	Triple-SL		Glass 1 Space TPS Glass 2 Space TPS Glass 3	5 12 5 12 5	0.181	95.7%	77.0%	63.6%	36.79	0.369	
		3 Glass,2 space	THK	39							Score 97
⑤	Triple-LL		Glass 1 Space TPS Glass 2 Lam pvb Glass 3	5 12 5 0.76 5	0.227	98.1%	99.0%	45.0%	41.09	0.288	
		3 Glass,2 space,1 Lam	THK	28							Score 99
⑥	Triple-2L		Glass 1 Space TPS Glass 2 Space TPS Glass 3	5 12 5 12 5	0.136	92.0%	63.0%	68.0%	36.79	0.487	
		2 Glass,1 space	THK	39							Score 95
⑦	Quadruple-2L		Glass 1 Space TPS Glass 2 Space TPS Glass 3 LAM pvb Glass 3	5 16 5 16 5 0.76 5	0.024	99.0%	99.0%	62.0%	45.37	0.344	
		4 Glass,2 space,1 Lam	THK	53							Score 103