

IASO®

Better Outside

TECHNICAL DATA SHEET

ENGLISH

PARASOLS

SPECIAL COLLECTION

AZORES SP



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DESCRIPTION

Large-format parasol designed to cover spacious areas of up to 36 m².

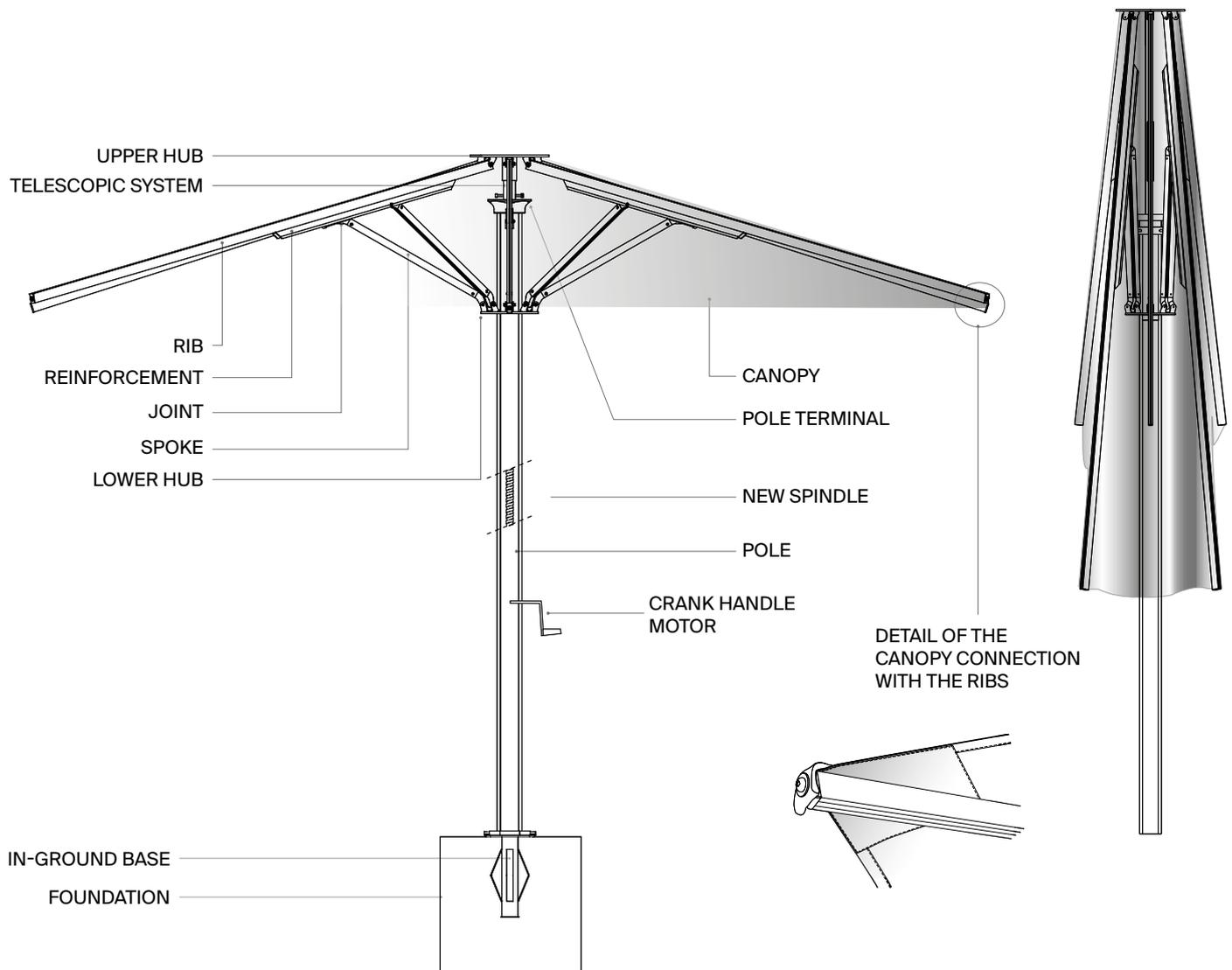
The frame consists of ribs and spokes connected to a square pole through two joining components. Inside, it features a telescopic profile that raises the parasol as it closes.

Opening system available with manual crank operation or motorised mechanism. The single-piece fabric canopy is attached at the top of the frame and at the ends of the ribs.

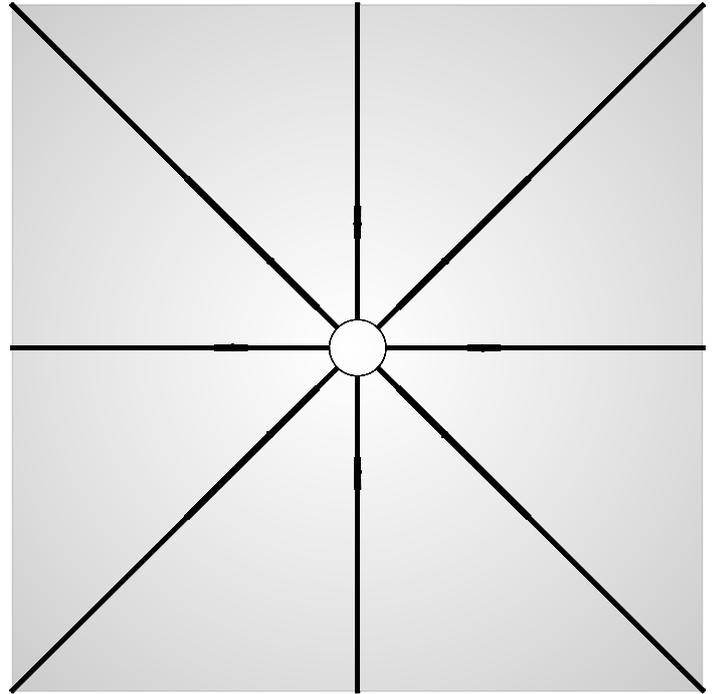
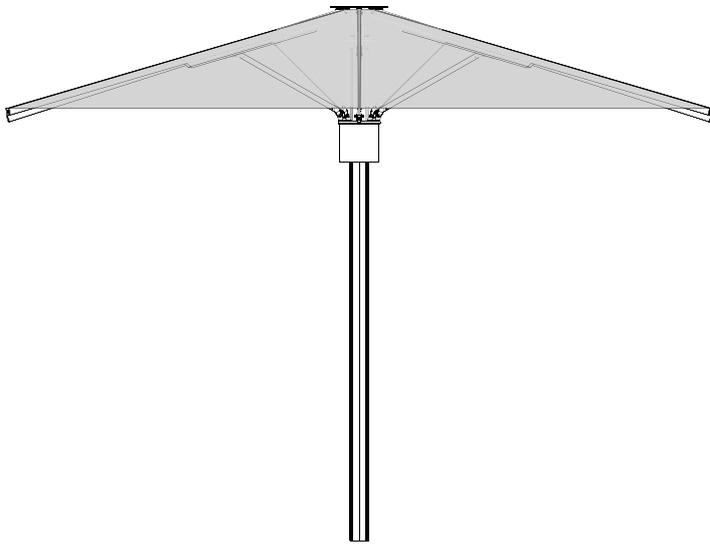
MATERIALS

- Structure: Aluminium 6063-T5 / 6060-T5, for the profiles
- Screws and fittings: Stainless steel AISI 304

MAIN COMPONENTS

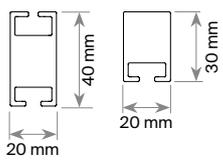


VIEWS

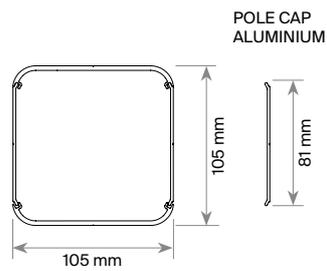


MAIN PROFILES

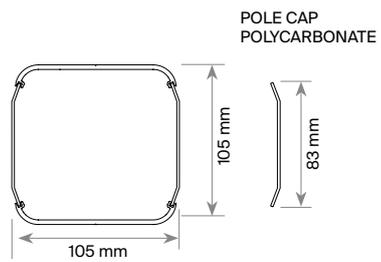
RIBS AND SPOKES



POLE WITHOUT LIGHTING



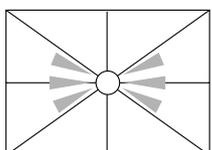
POLE WITH LIGHTING



LIGHTING ORIENTATION

FOR RECTANGULAR PARASOL

STANDARD



CUSTOMISED

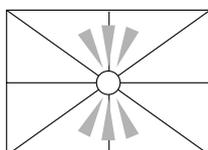
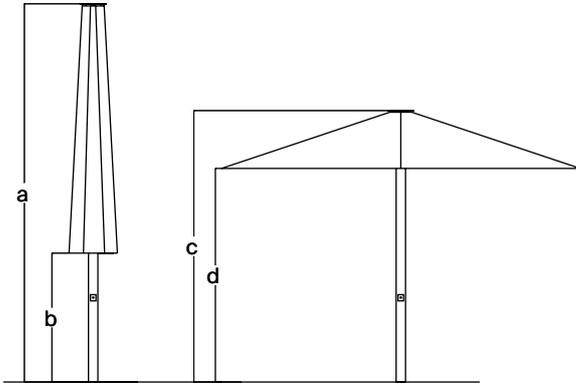
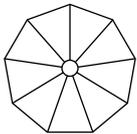


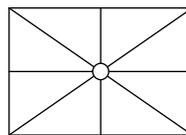
TABLE OF MEASUREMENTS



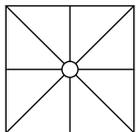
Model	Measures (m)	Nº Ribs	a	b	c	d
	2,5	8 - 20 x 40	3,08	1,85	2,80	2,40
	2,75	8 - 20 x 40	3,15	1,79	2,84	2,40
	3,0	8 - 20 x 40	3,23	1,74	2,88	2,40
	3,25	8 - 20 x 40	3,31	1,68	2,92	2,40
	3,5	8 - 20 x 40	3,38	1,63	2,96	2,40
	3,75	8 - 20 x 40	3,46	1,58	3,0	2,40
	4,0	8 - 20 x 40	3,54	1,53	3,04	2,40
	4,25	8 - 20 x 40	3,62	1,47	3,08	2,40
	4,5	8 - 20 x 40	3,69	1,42	3,11	2,40
	4,75	8 - 20 x 40	3,77	1,36	3,15	2,40
	5,0	8 - 20 x 40	3,85	1,31	3,19	2,40
	5,25	8 - 20 x 40	3,93	1,26	3,23	2,40
	5,5	10 - 20 x 40	4,80	1,20	3,27	2,40
	5,75	10 - 20 x 40	4,08	1,15	3,31	2,40
	6,0	12 - 20 x 40	4,16	1,10	3,35	2,40



Model	Measures (m)	Nº Ribs	a	b	c	d
	3,0x2,5	8 - 20 x 40	4,00	2,08	3,30	2,40
	3,5x2,5	8 - 20 x 40	4,00	1,90	2,81	2,40
	3,5x3,0	8 - 20 x 40	4,18	1,88	2,98	2,40
	4,0x2,5	8 - 20 x 40	4,28	1,92	3,08	2,40
	4,0x3,0	8 - 20 x 40	4,41	1,86	3,21	2,40
	4,0x3,5	8 - 20 x 40	4,26	1,61	3,56	2,40
	4,5x2,5	8 - 20 x 40	4,17	1,63	2,97	2,40
	4,5x3,0	8 - 20 x 40	4,09	1,41	2,90	2,40
	4,5x3,5	8 - 20 x 40	4,16	1,33	2,96	2,40
	4,5x4,0	8 - 20 x 40	4,34	1,32	3,14	2,40
	5,0x2,5	8 - 20 x 40	4,41	1,57	3,17	2,40
	5,0x3,0	8 - 20 x 40	4,43	1,49	3,24	2,40
	5,0x3,5	8 - 20 x 40	4,44	1,36	3,24	2,40
	5,0x4,0	8 - 20 x 40	4,43	1,22	3,24	2,40
	5,0x4,5	8 - 20 x 40	4,43	1,05	3,23	2,40
	5,5x3,0	10 - 20 x 40	4,50	1,32	3,30	2,40
	5,5x3,5	10 - 20 x 40	4,50	1,20	3,30	2,40
	5,5x4,0	10 - 20 x 40	4,50	1,05	3,30	2,40
	5,5x4,5	10 - 20 x 40	4,44	0,85	3,32	2,40
	5,5x5,0	10 - 20 x 40	4,50	0,75	3,32	2,40
	6,0x3,0	10 - 20 x 40	4,61	1,22	3,40	2,40
	6,0x3,5	10 - 20 x 40	4,63	1,10	3,46	2,40
	6,0x4,0	10 - 20 x 40	4,66	0,98	3,46	2,40
	6,0x4,5	10 - 20 x 40	4,66	0,83	3,46	2,40
	6,0x5,0	10 - 20 x 40	4,58	0,70	3,18	2,40
	6,0x5,5	12 - 20 x 40	4,77	0,67	3,40	2,40

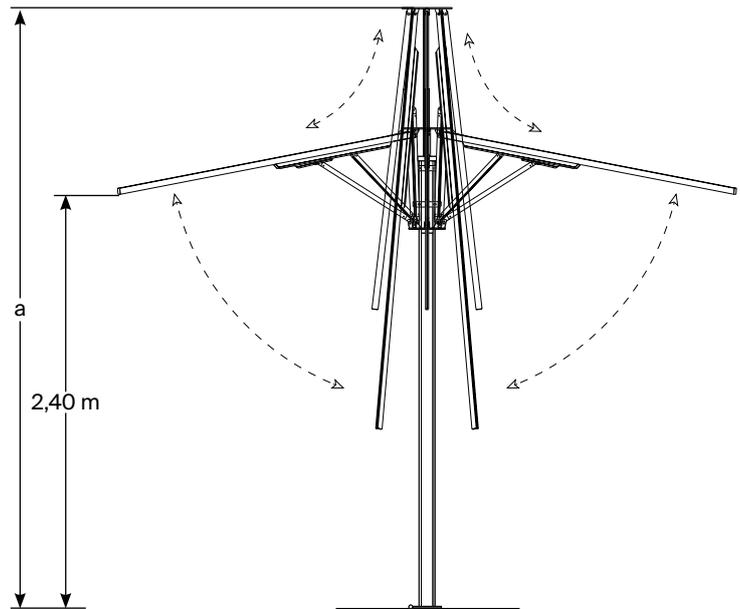


Model	Measures (m)	Nº Ribs	a	b	c	d
	2,5x2,5	8 - 20 x 40	4,00	2,28	2,80	2,40
	3,0x3,0	8 - 20 x 40	4,13	2,02	2,93	2,40
	3,5x3,5	8 - 20 x 40	4,19	1,71	2,96	2,40
	4,0x4,0	8 - 20 x 40	4,28	1,45	3,08	2,40
	4,5x4,5	8 - 20 x 40	4,34	1,16	3,15	2,40
	5,0x5,0	8 - 20 x 40	4,41	0,86	3,14	2,40
	5,5x5,5	12 - 20 x 40	4,49	0,60	3,30	2,40
	6,0x6,0	12 - 20 x 40	4,81	0,54	3,41	2,40



JUSTIFICATION OF DIMENSIONS

Telescopic opening system with a passage height of 2.4 metres, as shown in the following figure. These parameters mean that, when the parasol is closed, the structure extends upwards. (a)



LOADS

Wind load is classified according to UNE EN 13561, as indicated in the table. Consequently, the maximum wind speed that the Azores SP parasol model can withstand is 50–61 km/h, equivalent to grade 7 on the Beaufort scale, for parasols measuring up to 5 x 5 m.

The calculation has been carried out considering a fixed anchoring to the ground.
(see page 06 Foundation Tables)

Snow load has not been considered.

The calculation is based on the following standards:

- UNE EN 1999-1-1 Eurocode 9: Design of aluminium structures
- UNE EN 13561 External blinds and awnings. Performance requirements including safety.

CLASS	Grade Beaufort	Wind speed	Pressure	Environmental condition	
1	0	0 - 1 km/h	0.0 - 0.3 m/s	0.05 N/m ²	Calm
	1	1 - 5 km/h	0.3 - 1.4 m/s	1.21 N/m ²	Very light breeze
	2	6 - 11 km/h	1.7 - 3.1 m/s	5.84 N/m ²	Light breeze
	3	12 - 19 km/h	3.4 - 5.3 m/s	17.41 N/m ²	Gentle breeze
2	4	20 - 28 km/h	5.6 - 7.8 m/s	37.81 N/m ²	Moderate wind
3	5	29 - 38 km/h	8.1 - 10.6 m/s	69.64 N/m ²	Fresh wind
4	6	39 - 49 km/h	10.9 - 13.6 m/s	115.79 N/m ²	Strong wind
5	7	50 - 61 km/h	13.9 - 17.0 m/s	179.45 N/m ²	Near gale
	8	62 - 74 km/h	17.5 - 20.6 m/s	264.08 N/m ²	Gale
6	9	75 - 88 km/h	20.9 - 24.5 m/s	373.46 N/m ²	Strong gale
	10	89 - 102 km/h	24.7 - 28.3 m/s	501.74 N/m ²	Storm
	11	103 - 117 km/h	28.6 - 32.5 m/s	660.16 N/m ²	Violent storm
	12	118 - 133 km/h	32.6 - 36.9 m/s	853.06 N/m ²	Hurricane

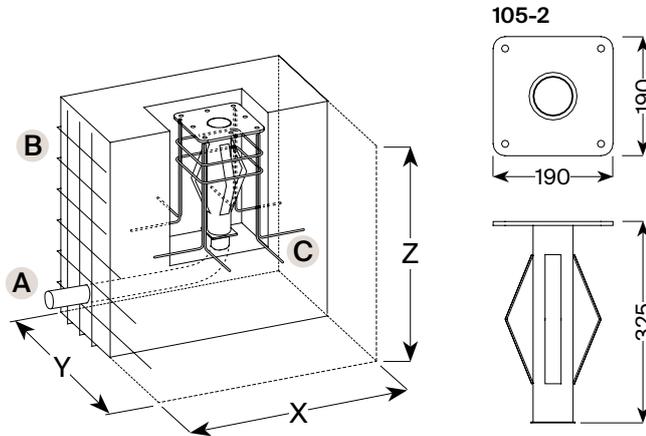
FOUNDATION TABLES

This anchoring system must be embedded in the ground and capable of withstanding maximum loads. Regarding the support components, their dimensions are determined to ensure the necessary stability of the parasol and to prevent lifting in case of wind suction, calculated at a maximum of 50–61 km/h, equivalent to grade 7 on the Beaufort scale.

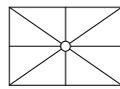
- Concrete HA - 25
- Ribbed rib Ø8 mm
- Welded mesh enclosure 150 x 150 with rib of Ø6 mm

In the case of anchoring with a concrete element, it should meet the minimum required dimensions.

- A** COURRAGTED TUBE máx. Ø40mm
- B** WELDED MESH ENCLOSURE
- C** RIBBED RIB



FOUNDATIONS (X, Y, Z)

	0,70 x 0,70 x 0,50 m	0,70 x 0,70 x 0,80 m	0,90 x 0,90 x 0,85 m		0,70 x 0,70 x 0,50 m	0,70 x 0,70 x 0,80 m	0,90 x 0,90 x 0,85 m
							
Ø 3,50	•			3,00 x 2,50		•	
Ø 4,00	•			3,50 x 2,50	•		
Ø 4,50		•		3,50 x 3,00		•	
Ø 5,00			•	4,00 x 2,50			•
Ø 5,50			•	4,00 x 3,00			•
Ø 6,00			•	4,00 x 3,50			•
				4,50 x 2,50			•
				4,50 x 3,00			•
				4,50 x 3,50			•
				4,50 x 4,00			•
				5,00 x 2,50			•
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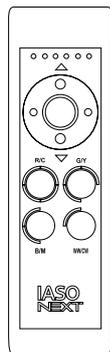
OPTIONS AND ACCESSORIES

- Motorisation kit
- Rib lighting kit
- Pole lighting kit
- 24V portable battery for lighting
- Heating kit
- Pre-installed audio wiring
- Valance
- Lighting valance
- Side curtains
- Parasol joint rain gutter
- Telescopic cover with pole

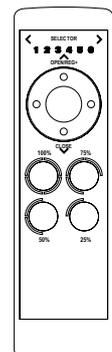
EMITTERS

CONTROL OF THE OPTIONS AND ACCESSORIES OPTIONAL

IASO NEXT HOME AUTOMATION	
Power supply	-10° / +55°C
Reception frequency	868,3 MHz
Standby consumption	< 1W
Typical consumption	< 2,5W
Radio memory capacity (transmitters)	20
WiFi frequency	2,4 GHz (b, g, n)



NOON TRANSMITTER	
Power supply	3V ± 10%
Lithium battery	CR2430
Battery lifespan	>2 years
Protection rating	IP20
Measures	125 x 40 x 10 mm
Operating temperature	-5° ~ 50 °C
Transmission power	10mW
Radio frequency	433,925 MHz
Operating range	35 m



CHARACTERISTICS OF THE LIGHTING

LIGHTING OF RIBS AND POLE OPTIONAL

RIBS	
Colour	Warm white
Temp. Colour	2700°K
Power	36W
Protection rating	IP 65
Consumption	14,4W/m
Voltage	24V
Adjustable	Yes

POLE	
Colour	Warm white
Temp. Colour	2700°K
Power	80W
Protection rating	IP 65
Consumption	8W/m
Voltage	24V

CHARACTERISTICS OF THE BATTERY

LIGHTING OF RIBS AND POLE OPTIONAL

- Output voltage: 24 V
- Equivalent capacity: 250 Wh (Motor applications)
- Lithium-ion technology (>2,000 charge cycles)
- Safety charger for 220 V recharging included
- Charging time (approx.): 8 hours
- New Unified Locking and Connection System (ULCS)
- Built-in mechanical lock
- High-quality plastic casing
- IP53 (protection against rainwater)
- Dimensions: 12.5 cm × 6.5 cm × 9.5 cm
- Weight: 1.9 kg

CHARACTERISTICS OF THE MOTOR

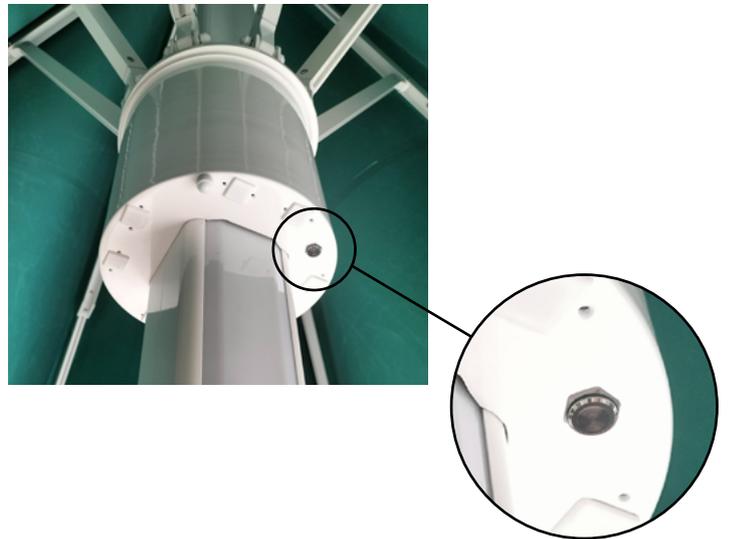
OPTIONAL

Characteristics	
Construction	Tubular, without vent
Power	100 W
Power supply	24V

Pn [W]	V [V]	I [A]	IP	Kg
100	24	11.8	66	1.7

EMERGENCY SAFETY

A switch is located in the parasol hub to cut off the motor's power supply. In case of emergency, if the parasol loses power, the user can press this switch to disconnect the motor and unlock it, allowing the parasol to be opened or closed manually until electrical power is restored.



MAINTENANCE

The AZORES SP parasol is a unique product whose construction solutions and materials are of the highest quality, ensuring maximum durability. As a result, regular maintenance is minimal, allowing it to remain in perfect working order and retain its elegant appearance with only occasional care. Below are some simple maintenance guidelines to follow.

CANOPY

Canopy maintenance consists of cleaning. To keep the weather-exposed fabric looking new, clean it two or three times a year to prevent dust or pollution from settling on it due to sun exposure.

- PVC: Spray with water and neutral soap, let it sit for a few minutes, and then use a soft sponge to remove dirt without scrubbing. Repeat the process if necessary and rinse thoroughly with clean water.
- ACRYLIC: Dry clean only.
- POLYESTER: Dry clean only.

STRUCTURE

Clean the aluminium components with water and neutral soap.

ATTENTION

The main function of the parasol is to reduce the impact of sunlight; it does not provide 100% protection against rain.



We believe in the *elegance* of engineering.