

Cabinets for the Smart City – SmarTower Model

CE trademark number 2.950.467
EU patent number 201001231 and number 201001232

Introduction

The SmarTower are urban control towers designed to consolidate infrastructure. They have been developed by ARELSA and hold an EU patent.

Urban design

Designed by a multidisciplinary team of engineers and architects, the SmarTower is characterized by offering modern and elegant aesthetics without compromising the features and performance required in a street cabinet.

Latest technology

The SmarTower® are new generation cabinets that house electrical, electronic and communications devices that link street services with control centres and allow the Administration and the citizens to have up to date information of all activities.

They can integrate the following services:

- Street lighting.
- Electrical vehicle charging points.
- Environmental surveillance.
- Traffic lights.
- Recycling containers.
- Publicity and information.

Manufacturing

The SmarTower's plate is made of AISI 304 stainless steel and is 2 mm thick.

They are manufactured following our customer's requirements and are delivered plug-and-play: fully equipped, programmed and with active communications.

Quality control

All our cabinets are manufactured following a thorough quality control and comply with the ISO 9001:2008 Norms, as certified by AENOR and EQNET since 1996.

CE mark and warrant

All cabinets carry the CE mark and have a two-year warrant.

Facilities

Our state-of-the-art workshops are conveniently located 20 km north of Barcelona.



Various models from the SmarTower family

Cabinets for the Smart City – SmarTower Model

Technical data

SmarTower	Smart Cabinets for the Smart City	
Electrical data	Service voltage	3x400/230 V
	Max. current	400 A
Busbar	Copper strip	
Test certification	Test lab	APPLUS +
	Standard tests and verifications: <ul style="list-style-type: none"> • Thermal limit. • Dielectrical characteristics. • Cutout resistance. • Protection circuit continuity. • Isolation distance. • Mechanical behaviour. • Protection degree. 	IP protection degree number 10/31702524 IK protection degree number 11/31701008 Thermal limit number 11/31701007 Nº 10/31702524 Grado protección IP Nº 11/31701008 Grado protección IK Nº 11/31701007 Límite Calentamiento
Norms and quality	CE mark	UNE-EN 60439-1
	Quality certificates	UNE-EN ISO 9001/2008 AENOR ER-0420/1996
Structural characteristics	It is formed by combined modules with independent plinth, main module, optional module, antennae module and rooftop.	Self-porting ensembles
	Each cabinet is vertically subdivided in independent modules to house the electrical feeder, protections, telemanagement terminal, communications and savings equipment.	Subdivided
Mechanical characteristics	Main frame	AISI 304 stainless steel plate, 2 mm thick.
	Degrees of protection	IP20 up to IP55
	Surface	Plate is stripped, phosphated and imprinted with stoved enamel.
	Default color	RAL 7021
	Basic models	SmarTower-520, SmarTower-700 and SmarTower-850.
Dimensions	Total height	2.590 mm
	Base module height	1770 mm
	Optional modules height	520 and 720 mm
	Plinth	300 mm
	Base dimensions	520x520 mm, 700x700 mm or 850x820mm
Standard Working Conditions	Installation	External service
	Ambient temperature	-15 °C to 50 °C
	Relative humidity	Max. 60% at 40 °C
	Max. altitude	≤ 2000 m.