

ZA-10k Zeppelin Shaped Aerostat

Specification January 2026

Category	Technical Parameter	Description / Unit of Measure
1. General Characteriscs	Model / Designation	ZA-10k - Zeppelin shaped Aerostat
	Purpose	Persistent Infrastructure Carrier
	Construction Type	The internal pressure maintains the envelope's rigidity
2. Geometric Dimensions	length	13 x 3 m
	Helium Volume	App 60 m3
	Fin span	X stabilizers configuration up to 10% of the side profile area
3. Masses and Payload	Gross lift	App 60 kg
	Empty System Weight	App 20 kg
	Maximum Payload Capacity	10 kg
4. Operational Performance	Max Operating Altude	100 – 150 m
	Max Wind Speed Limit	30 km/h
	Operating Temp. Range	-10 to 60 °C
	Daily Helium Leakage	Up to 1% per day on total volume
5. Materials & Craftsmanship	Envelope Material	125 microns TPU White
	Seam Technology	Ultrasonic Welding (0.3 mm seam)
	Fin System	Composite stabilizers
	Valve System	Scoprega 2 stage valve at the back x 2
	Safety valve	Yes
6. Tether & Power System	Tether Line	150 m 8 mm Polyester (470 kg BS)
	Tether Power System (TPS)	No (available on request)
7. Logiscs & Preparation	Setup / Inflation Time	Up to 1 hour
	Packaging Dimensions	2 x 2 x 2 m

