

JBOX Ex e - Medium Voltage Distribution Junction Box 6,6 kV

The **MV Distribution Box 6,6kV built in execution Ex e**, increased safety, is designed to prevent generation of arcs, sparks or dangerous temperatures that can trigger an explosion and it's suitable for installation in a mining in the area classified Group I Category M2 and industrial plants with the presence of gas or dust, Group II 2G and 2D.

- Designed to better respond to severe mechanical stress;
- Manufactured for outdoor or tunnel installations;
- Safe for personnel and operation, with protection from contact with live parts;
- Free-standing and ready for use;
- Customized solution on request.

NOTE: The MV Distribution Box 6,6kV, could be installed also in safe area, with the same design and electrical features.

Reference Standards

International standard	EN 60079-0 EN 60079-7 EN 60079-30 EN 60079-31 IEC EN 62217-200:2013
Atex Directive	2014/34/EU I M2 Ex eb I Mb, II 2G Ex eb IIC T4 Gb, II2D Ex tb IIIC T135°C Db



Main Electrical Features

		6,6kV 3AC
Rated voltage	Ur	6,6 kV
Withstand voltage at 50 Hz (1 min)	Ub	20 kV
Rated impulse voltage	U imp	60 kV
Rated frequency	fn	50-60 Hz
Main busbar/cables rated current	Ir	630 A

NOTE: On request, junction boxes may be designed for a higher operating voltage.

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Features of Construction

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Voltage (kV)	Length (mm)	Height (mm)	Depth (mm)
6,6	1200	600	400

Material	Metal sheet steel (AISI 304-316L-316Ti as optional)
Thickness	3 mm
Sealing	EPDM (silicone as optional)
Side box	Outer positioning (optional) for fiber optic terminal strips or terminal strips connection
Accessories (optional)	Anticondensing heater
Incoming cables	From bottom cable glands/MCT
Outgoing cables	From bottom cable glands/MCT
Accessibility	Front
Anchorage	Wall
Painting	RAL 3020 (other shades on request)



Service and environmental conditions

External protection degree	Up to IP 66
Opened doors protection degree	IP 00
Type of installation	Outdoor
Maximum ambient temperature	+ 50° C
Minimum ambient temperature	- 50° C
Altitude	< 1000m s.l.m.

