



Device Description:

Intrinsically safe power supply ZIM-CX is intended to power electrical and electronic mining installations, especially intrinsically safe control and signaling systems. Stabilized output voltages are allowing to use the power supply to power microprocessor controllers. It is characterized by high reliability of output voltages with unstable input voltage, which can vary in range from 36 VDC to 75 VDC or from 35 VAC to 54 VAC (for version „L”), from 30 VAC to 250 VAC (for version „W”) and from 100 VAC to 250 VAC (for version „H”). The connection of supply voltage is made through connection chamber with two outlets. ZIM-CX power supply can be equipped with two independent output lines with different values of current and voltage, according to the customer needs. The device is also equipped with one LED signaling the operating status.

Technical characteristics:

ATEX certificate number	FTZÚ 10 ATEX 0112
Supply parameters:	
Supply voltage U_N for version:	
ZIM-CX/H	100VAC ÷ 250 VAC 50Hz
ZIM-CX/L	35VAC ÷ 54 VAC 50Hz
	36VDC ÷ 75 VDC
ZIM-CX/W	30VAC ÷ 250 VAC 50Hz
Supply current I_N	$\leq 1A$ for version ZIM-CX/H $\leq 2,5A$ for version ZIM-CX/L $\leq 2A$ for version ZIM-CX/W
Output voltage U_o	max 12,8V for $U_N = 12 V$ max 15,8V for $U_N = 15 V$
Maximum load current	2,5A
Tolerance of output voltages as a function of voltage fluctuations	$U_o \pm 2\%$
Tolerance of output voltages as a function of load changes	$U_o \pm 2\%$
Normal working conditions:	
Device category	M2
Casing type	Ex ib q [ib] I Mb
Gas explosiveness group	I
Working temperature range	0°C ÷ 40°C
Air humidity	max 95%
Casing protection degree	IP65
Mechanical exposure	low
Width x Height x Depth	266 × 208 × 151 mm
Weight	12 kg