



## Device Description:

Intrinsically safe power supply type ZIM-BX is designed to supply electrical and electronic installations, especially the intrinsically safe control and signaling systems. Stabilized output voltage allows the use of power supply to power the microprocessor controllers. Connection of power supply is done by output junction chamber equipped. Power supply type ZIM-BX has two independent outputs. It is equipped optionally with an LCD display, giving the ability to monitor voltage and current values of output and also optionally with RS-485 port for remote monitoring purposes on the surface of the mine. ZIM-BX can be provided with rechargeable battery block (or blocks) providing power on its outputs constantly even after the disappearance of input voltage. Back-up time differs depending on the used battery block capacitance.

## Technical characteristics:

ATEX certificate number	FTZÚ 09 ATEX 0120X (power supply) KDB 15ATEX0092X (battery block)
<b>Supply parameters:</b>	
Supply voltage $U_N$	24 VAC or 42 VAC or 127 VAC or 230 VAC or 250 VDC
Output Voltage $U_o$	max 12,8V for voltage $U_o$ 12V max 15,8V for voltage $U_o$ 15V
Maximum total output current	2,4 A
Battery capacitances available	2,2 Ah, 4,5 Ah, 9 Ah, 18 Ah
<b>Normal working conditions:</b>	
Device category	I M2
Casing type	Ex d q [ia] I Ma
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	550 × 407 × 170 [mm] (with battery capacitance over 4,5Ah) 404 x 407 x 150 [mm] (with battery capacitance to 4,5 Ah)
Weight	12 kg - 18 kg (depending on the battery block capacitance)