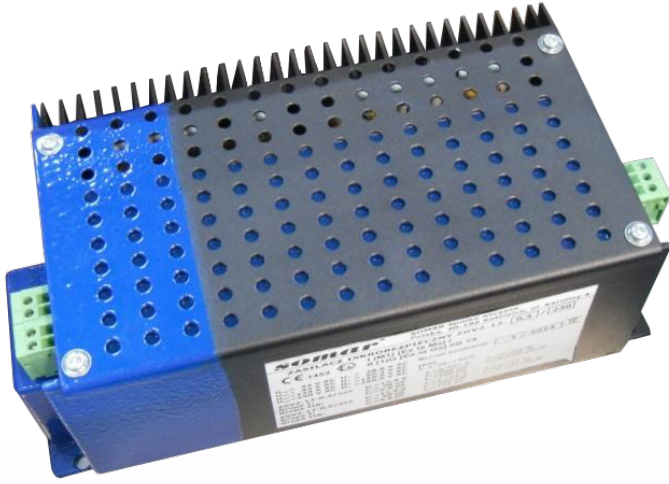


INTRINSICALLY SAFE POWER SUPPLY ZGV2-12



WEIGHT AND DIMENSIONS	
Weight	4,5 [Kg]
Height	90 [mm]
Length	249 [mm]
Width	126 [mm]

ATEX Marking: I (M1) [Ex ia Ma] I

Nominal output current of power supply is 2x0,3 A or 2x0,5 depending on version. Individual versions differ in nominal supply voltage 24, 42, 133, 230 V AC 50 Hz.

Power supply ZGV2-12 have separate terminal blocks for non intrinsically safe input circuit and intrinsically safe output circuit.

ZGV2-12 power supply is made in the form of encapsulated module. Nominal output voltage of ZGV2-12 is 12 V DC.

ZGV2-12 power supply is designed to supply intrinsically safe equipment of groups I and II (subgroup IIB) with ia level of security.

Only output circuits of the power supply are intrinsically safe and therefore power supply, in potentially explosive atmospheres, must be installed in the explosion proof enclosure.

ZGV2-12 power supply can be used in mining plants, in the excavation sites of "a", "b" and "c" class of methane explosion hazard, or "A" or "B" class of coal dust explosion hazard.

TECHNICAL SPECIFICATIONS	
Nominal input voltage Un	24 V AC 50 Hz, 42 V AC 50 Hz, 133 V AC 50 Hz, 230 V AC 50 Hz
The range of input voltage	-20..+20% Un (-20..+8,7% for voltage 230 V AC)
Input Protection	overcurrent fuse and thermal fuse in the primary winding of the transformer
Intrinsically safe parameters of output circuit	
output designation	0V, 12V
nominal output voltage	11,8..12,2 V DC (typ. 12 V DC)
maximal output current	2x 0,3 A or 2x 0,5 A
maximum output voltage ripple at maximal current	50 mVpp
Intrinsically safe parameters	
ZGV2-12-0,3/xxx	Uo=12,8 V, Io=0,797 A, Po=5,362 W Group I: Lo=500 uH, Co=30 uF, Lo/Ro=80 uH/Ω Group II (subgroup IIB): Lo=200 uH, Co=6,8 uF, Lo/Ro=30 uH/Ω
ZGV2-12-1,5/xxx	Uo=12,8 V, Io=1,165 A, Po=8,741 W Group I: Lo=200 uH, Co=30 uF, Lo/Ro=55 uH/Ω Group II (subgroup IIB): Lo=150 uH, Co=6,8 uF, Lo/Ro=24 uH/Ω
Operating conditions	
ambient temperature	0..+50 °C
air relative humidity	to 95% in temp. 40° C
Enclosure degree of safety	IP20