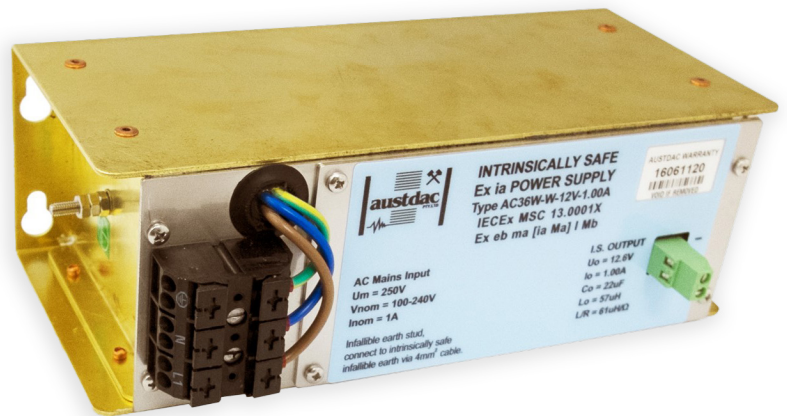


Power Supply

Type AC36W

- ✓ 12Vdc up to 3.3A and 16V up to 1A output - Group I
- ✓ 12Vdc up to 1.5A - Group IIB
- ✓ 110Vac to 240Vac input
- ✓ Rectangular output characteristic
- ✓ Small size
- ✓ IECEx certified
- ✓ MSHA compliant



The Power Supply Type AC36W is an intrinsically safe power supply that has a nominal output voltage of 12 volts DC and an output current of up to 3.3A or 16V DC and an output current of up to 1A. The AC36W is an active power supply. The AC36W is suitable for use in Group I and IIB applications. The AC36W power supply may be used to power intrinsically safe apparatus located in zone 0, 1 or 2.

The AC36W power supply can be powered from a nominal 100V or 240V AC power source to suit most applications in underground coalmines. The output of the power supply is galvanic isolated from the mains input and earth.

The AC36W is designed to be located in a safe area or within a minimum IP55 enclosure capable of provide mechanical protection to the AC36W.

Certification

The Power Supply Type AC36W is IECEx certified for use in Group I and IIB hazardous areas under certificate IECEx MSC 13.0001X.

Markings:

Ex eb ma [ia Ma] I Mb
 Ex ma [ia Ma] I Mb
 Ex eb ma [ia Ga] IIB Gb T4
 Ex ma [ia Ga] IIB Gb T4

Specifications

Power Supply	
Name	Power supply
Type	AC36W
Output type	Rectangular (10Ω ±5%)
Mains voltage	100 to 240Vac
Mains frequency	48-62Hz
Mains load	1.0A
Terminations	Screw clamp
Conductor size	2.5mm ² max
Mains fuse	2 x 2A 600VAC ceramic 20mm x 5mm HRC 1500A rupturing capacity time lag
Operating temperature	0°C to +40°C
Dimensions	95mm (120mm including terminals) H x 77mm D x 215mm W
Mass	3 kg
Enclosure material	Brass and steel

Output - Group I	
Output voltage and current	12.6V @ 0.1A - 1.0A 12.6V @ 1.05A - 3.3A 16V @ 0.1A - 0.5A 16V @ 0.55A - 1.0A

Output - Group IIB	
Output voltage and current	12.6V @ 0.1A-1.5A

Power Supply	
Input	Terminal block or integral mains cable
Output Voltage	12.6 or 16.0VDC
Output Current (12.6V) - Group I	0.1 to 3.3A in 0.05A steps
Output Current (12.6V) - Group IIB	0.1 to 1.5A in 0.05A steps
Output Current (16V)	0.1 to 1.0A in 0.05A steps

Parameters

Group	AC36W Model	Um	Uo	Io	Co	Lo	Lo/Ro
Group I	12.6V @ 1.05 to 3.3A	265V	12.6V	3.3A	18uF	55uH	22uH/Ohm
Group I	12.6V @ 0.1 to 1.0A	265V	12.6V	1.0A	22uF	57uH	61uH/Ohm
Group I	16V @ 0.55 to 1.0A	265V	16.0V	1.0A	6uF	33uH	29uH/Ohm
Group I	16V @ 0.1 to 0.5A	265V	16.0V	0.5A	11.5uF	41uH	53uH/Ohm
Group IIB	12.6V @ 0.1 to 1.5A	265V	12.6V	1.5A	6.65uF	54uH	41uH/Ohm

Ordering Details

Description	Order code
Power Supply Type AC36W	PSAC36W-n-xxV-yyA-xxxx

PSAC36W-n-xxV-yyA-xxxx

Options

- **GII** - Group IIB - up to 1.5A
- **MSHA** - MSHA compliant

Current Options

- **12V** Standard values 1.0, 2.0, 2.35, 2.5 and 3.0A (other versions available as special order)
- **16V** Standard values 0.5 and 1.0A (other versions available as special order)

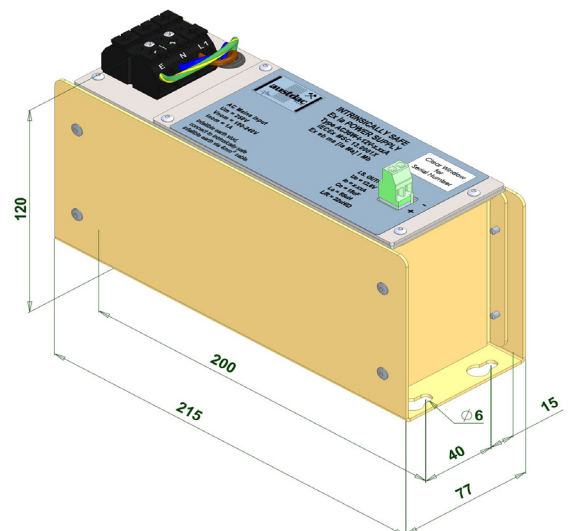
Voltage Options:

- **12V or 16V**

Termination Options:

- **110 to 240V** Terminal block (W) - Group I & II
- **110 to 240V** Integral cable (C) - Group I only
- **110 to 170V** Terminal block ATEX (blank)

Dimensions



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