

AC25W Resistive I.S. Power Supply

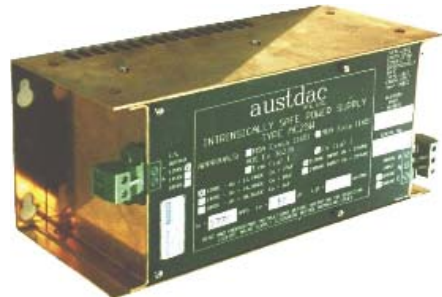
General Information

This range of power supplies has been developed to provide maximum flexibility in system design. All of these power supplies are available in varying currents, however, we have standardised on various current outputs as indicated below.

The range consists of 3 units, all of which use a common housing with the same fixing details and mounting centres. There is a special bracket available to allow the new range to be fitted to mounting holes of previous Austdac power supplies.

Typical Uses

This range of power supplies are designed to replace the present "active" supplies and can be used in conjunction with the Austdac Longwall, gas detection, and conveyor systems and continuous miners.



Resistive Power Supplies (Exia):

- Resistive power supply range 12 volt, 14 volt, 18 volt;
- Nominal 110 volt or 240 volt inputs;
- Approval Number Ex (ia) 11651;
- Certificate Number AUS Ex 3623X.

Dimensions

252mm length x 108mm width x 105mm height

Parameters

12 volt 740mA L/R = 72 μ H/ Ω : Part number PS121740 (110V) / PS122740 (240V).

12 volt 785mA L/R = 70 μ H/ Ω : Part number PS121785 (110V) / PS122785 (240V).

12 volt 880mA L/R = 61 μ H/ Ω : Part number PS121880 (110V) / PS122880 (240V).

14 volt 460mA L/R = 94 μ H/ Ω : Part number PS141460 (110V) / PS142460 (240V).

18 volt 199mA L/R = 128 μ H/ Ω : Part number PS181199 (110V) / PS182199 (240V).

18 volt 284mA L/R = 85 μ H/ Ω : Part number PS181284 (110V) / PS182284 (240V).

AC25W Power Supply Conversion Bracket: Part number MTPL055.

Encapsulated Power Supplies are available for Exe enclosures (NSW Ex.m.(ia) 11651 / QLD AUS Ex 3623X)



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Power Supply Electrical Parameters

Input Current: 110V or 240V

Austdac Part Number	Type	Nom. Output Current	U _o (Volts)	I _o (mA)	C _o (μF)	L _o (μH)	L/R (μH/Ω)
PS121250 / PS122250	12V	0.250A	12.34	531	27	100	123
PS121375 / PS122375	12V	0.375A	12.34	757	27	100	123
PS121415 / PS122415	12V	0.415A	12.33	833	27	50	84
PS121460 / PS122460	12V	0.460A	12.33	925	27	50	84
PS121520 / PS122520	12V	0.520A	12.33	1041	27	50	84
PS121620 / PS122620	12V	0.620A	12.33	1249	27	50	84
PS121740 / PS122740	12V	0.740A	12.33	1487	27	50	72
PS121785 / PS122785	12V	0.785A	12.33	1571	27	50	70
PS121880 / PS122880	12V	0.880A	12.33	1771	27	50	61
PS141250 / PS122250	14V	0.250A	13.98	532	18	100	117
PS141375 / PS122375	14V	0.375A	13.98	757	18	100	117
PS141415 / PS142415	14V	0.415A	13.98	833	18	100	94
PS141460 / PS142460	14V	0.460A	13.98	925	18	100	94
PS181085 / PS122085	18V	0.085A	17.97	170	5	200	128
PS181104 / PS122104	18V	0.104A	17.97	208	5	200	128
PS181125 / PS182125	18V	0.125A	17.97	250	5	200	128
PS181156 / PS182156	18V	0.156A	17.97	312	5	200	128
PS181187 / PS182187	18V	0.187A	17.97	375	5	200	128
PS181199 / PS182199	18V	0.199A	17.97	399	5	200	128
PS181240 / PS182240	18V	0.240A	17.97	480	5	200	104
PS181284 / PS182284	18V	0.284A	17.97	568	5	200	85

Cable Parameters

Description	Part Number	Size (mm ²)	L/R Ratio (μH/Ω)	Inductance (μH/m)	Capacitance (pF/m)
½" Hose and Cable 2.5mm ²	8P001	2.5	43	1	52
BM3 Cable 6 Core 0.5mm ²	BM3015	0.5	15	1.1	107
Cable 5 Core 2.5mm ²	CABL25	2.5	45	0.9	100
Pullwire 6 Core 0.75mm ²	CONO5/B	0.75	25	1.2	50
SILBUS Cable 2 Core 1.5mm ²	SIL078	1.5	28	0.9	78
Cable 4mm + 2 Pair 1mm ²	G2000	4	60	0.9	104.5
Cable 10mm + Twin Pair 0.75mm ²	G2000A	10	123	0.8	130
Cable 4mm + Twin Pair 1mm ²	G2000B	4	60	0.9	213

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Power Supplies

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