

MAH 36 Series

25 WATTS SINGLE & MULTI OUTPUT DC/DC INDUSTRIAL

Features

- 4:1 Input range
- Efficiency to 84 %
- 200 kHz switching frequency
- 500 VDC isolation
- Six-sided shield



Specifications

INPUT

Nominal voltage	12V, 24V, 48V.
Voltage range	9-36V, 18-72V.
Isolation	500VDC.
Filter	PI-type

OUTPUT

Power	25W and 30W.
Regulation	Line: Single, dual $\pm 0.2\%$, triple $\pm 1.0\%$ Load: Single, dual $\pm 1.0\%$, triple $\pm 5.0\%$. 25% min load is required to meet specification.
Load transient response	<480 μ s.
Setting accuracy	Single: $\pm 1\%$. Dual: +output $\pm 1\%$, -output $\pm 3\%$. Triple: 5V $\pm 1\%$, 12/15V $\pm 5\%$, -5V $\pm 2\%$.
Ripple and noise	Max. 75 mVp-p.
Short circuit protection	Fold-back. Approx 80% of output current at short circuit.
Temp coefficient	$\pm 0.02\%$ /°C.
Efficiency	77% to 85%.

ENVIRONMENTAL

Operating temperature	-25°C to +71°C.
Storage temperature	-55°C to +105°C.
Cooling	Convection.

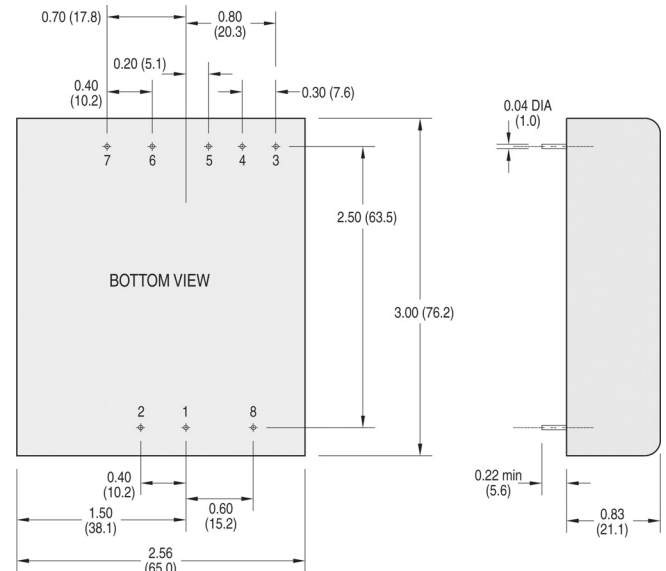
GENERAL

MTTF	200 000 hours at 25°C ambient.
Switching frequency	Min. 250 kHz.
Equivalent capacitance	1000 pF.
Case	Black coated copper with non-conductive base.
Dimensions (H x W x L)	21.1 x 65.0 x 76.2 mm.
Weight	180g.

STANDARDS

C-Tick	AS/NZS CISPR11 Group 1 Class A
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Technical Illustration



All dimensions are in Inches (mm)

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Selection Table

POWERBOX ARTICLE NUMBER	INPUT VOLTAGE VDC	OUTPUT VOLTAGE VDC	OUTPUT CURRENT mA	INPUT CURRENT NO LOAD mA	INPUT CURRENT FULL LOAD mA
MAH 36 003	9-36	5	5000	20	1350
MAH 36 006	9-36	12	2500	20	1560
MAH 36 009	9-36	15	2000	20	1560
MAH 36 012	9-36	±12	1250	25	1560
MAH 36 015	9-36	±15	1000	25	1560
MAH 36 018	9-36	5/±12	3000/625	25	1650
MAH 36 021	9-36	5/±15	3000/500	25	1650
MAH 36 024	9-36	+5/+12/-5	3000/600/1000	25	1450
MAH 36 027	18-72	5	5000	15	670
MAH 36 030	18-72	12	2500	15	770
MAH 36 033	18-72	15	2000	15	770
MAH 36 036	18-72	±12	1250	20	750
MAH 36 039	18-72	±15	1000	20	750
MAH 36 042	18-72	5/±12	3000/625	20	790
MAH 36 045	18-72	5/±15	3000/500	20	780
MAH 36 048	18-72	+5/+12/-5	3000/600/1000	20	725

PIN CONNECTION

PIN	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE OUTPUT
1	+V Input	+V Input	+V Input
2	-V Input	-V Input	-V Input
3	+Sense	+V Output	+V Output
4	Output trim	Common	Common
5	-Sense	-V Output	-V Output
6	+V Output	NP	+5V Output
7	-V Output	NP	NP
8	Remote On/Off Control		

NP = No pin.

REMOTE ON/OFF CONTROL

Logic compatibility	CMOS or open collector TTL
Output-On	>5.5VDC or open circuit
Output-Off	<1.8VDC
Shutdown idle current	10mA
Input resistance	100K ohms (Ein 0 to 9VDC)
Control common	Referenced to input minus

EXTERNAL OUTPUT TRIMMING

Output may optionally be externally trimmed ($\pm 10\%$) with a fixed resistor or an external trimpot as shown.

