

MAH 35 Series

25-30 WATTS - DC/DC SINGLE & MULTI OUTPUT

DC-DC PCB MOUNTED CONVERTERS & POWER MODULES

FEATURES

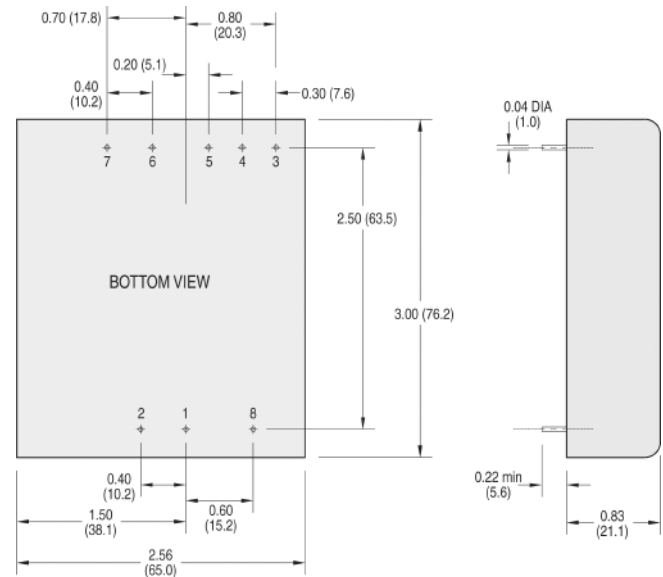
- 4:1 Input range
- Efficiency to 84%
- 200 kHz switching frequency
- Remote ON/OFF control
- Six-sided shield metal case
- Regulated output
- Isolation 500VDC
- Pi input filter



SPECIFICATIONS

INPUT	
Nominal voltage	12V, 24V, 48V.
Voltage range	9-36V, 18-72V.
Isolation	500VDC.
Filter	PI-type
OUTPUT	
POWER	
Regulation	Line: Single/Dual $\pm 0.2\%$, Triple $\pm 1.0\%$ Load: Single/Dual $\pm 1.0\%$, Triple 5.0%
Load transient response	<480 μ s.
Setting accuracy	Single: $\pm 1.0\%$ Dual: $\pm 1.0\%$ & $\pm 3.0\%$ Triple: $\pm 5.0\%$ & $\pm 2.9\%$
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 83%.
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. 200 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.

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
MAE 35 003	9-36	5	3000	15	810
MAE 35 006	9-36	12	1250	15	780
MAE 35 009	9-36	15	1000	15	780
MAE 35 012	9-36	±12	625	20	780
MAE 35 015	9-36	±15	500	20	780
MAE 35 018	9-36	5/±12	1500/310	20	780
MAE 35 021	9-36	5/±15	1500/250	20	780
MAE 35 024	9-36	+5/+12/-5	1500/310/500	20	715
MAE 35 027	18-72	5	3000	10	410
MAE 35 030	18-72	12	1250	10	390
MAE 35 033	18-72	15	1000	10	390
MAE 35 036	18-72	±12	625	15	380
MAE 35 039	18-72	±15	500	15	380
MAE 35 042	18-72	5/±12	1500/310	15	380
MAE 35 045	18-72	5/±15	1500/250	15	380
MAE 35 048	18-72	+5/+12/-5	1500/310/500	15	350

PIN CONNECTION

PIN	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE OUTPUT
1	+V Input	+V Input	+V Input
2	-V Input	-V Input	-V Input
3	NP	+V Output	+V Output
4	Output trim	Common	Common
5	NP	-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

