

- Single / Dual / Triple Outputs
- Universal 85VAC to 265VAC Input
- 3.3VDC to 24VDC Outputs
- 3,000VAC Input to Output Isolation
- PCB and Chassis Mount Packages
- Full Safety Approvals

MCA-10 Series



Fully Approved
IEC-950, EN60950, UL1950
CSA22.2-950

UL File# E167432, TUV File# B 95 06 22749 002

As Small As 2.56"L x 1.77"W x 0.83"H

MODEL SELECTIONS

Output Voltage	Output Amps/Watts	Size, (inches) (PCB, CHASSIS)	Model Number	Price 1	Price 25
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SINGLE OUTPUT

3.3 VDC	2.5/8W	(PCB) 2.56 x 1.77 x 0.83	MSCA-0100	\$72	\$69
		(CHA) 3.77 x 2.16 x 1	MSCC-0100	\$83	\$79
5 VDC	2/10W	(PCB) 2.56 x 1.77 x 0.83	MSCA-0101	\$72	\$69
		(CHA) 3.77 x 2.16 x 1	MSCC-0101	\$83	\$79
12 VDC	0.85/10W	(PCB) 2.56 x 1.77 x 0.83	MSCA-0102	\$72	\$69
		(CHA) 3.77 x 2.16 x 1	MSCC-0102	\$83	\$79
15 VDC	0.67/10W	(PCB) 2.56 x 1.77 x 0.83	MSCA-0103	\$72	\$69
		(CHA) 3.77 x 2.16 x 1	MSCC-0103	\$83	\$79
24 VDC	0.42/10W	(PCB) 2.56 x 1.77 x 0.83	MSCA-0105	\$72	\$69
		(CHA) 3.77 x 2.16 x 1	MSCC-0105	\$83	\$79

DUAL OUTPUT

+/-12 VDC	+/-0.42/10W	(PCB) 2.56 x 1.77 x 0.83	MDCA-0106	\$78	\$74
		(CHA) 3.77 x 2.16 x 1	MDCC-0106	\$88	\$84
+/-15 VDC	+/-0.34/10W	(PCB) 2.56 x 1.77 x 0.83	MDCA-0107	\$78	\$74
		(CHA) 3.77 x 2.16 x 1	MDCC-0107	\$88	\$84
+5/12 VDC	1/0.42/10W	(PCB) 2.56 x 1.77 x 0.83	MDCA-0108	\$78	\$74
		(CHA) 3.77 x 2.16 x 1	MDCC-0108	\$88	\$84

TRIPLE OUTPUT

+5,+/-12 VDC	1,0,1/0.1/10W	(PCB) 2.56 x 1.77 x 0.83	MTCA-0109	\$83	\$79
		(CHA) 3.77 x 2.16 x 1	MTCC-0109	\$93	\$89
+5,+/-15 VDC	1,0,1/0.1/10W	(PCB) 2.56 x 1.77 x 0.83	MTCA-0111	\$83	\$79
		(CHA) 3.77 x 2.16 x 1	MTCC-0111	\$93	\$89

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All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

10 WATT Ultraminiature Modular Switching Power Supplies MCA-10 Series

INPUT SPECIFICATIONS

Input Voltage, Nominal	85-265VAC Nominal: 100-240VAC
Input Frequency	47-440 Hz, 50-60Hz Nom.
Inrush Current	20A @ 100VAC, typ 40A @ 200VAC, typ

OUTPUT SPECIFICATIONS

Output Voltage/Current	See Specific Model
Initial Accuracy	+/-1%, adjustable
Voltage Adjust	+/-6%, typ
Load Regulation	+/-3%, typ
Line Regulation	+/- 3%, typ
Temperature Coefficient	+/-0.03%/DegC
Ripple/Noise(20Mhz BW)	150mV Pk-Pk, typ
Overvoltage Protection	Clamp, 130-150% *
Hold Up Time	30mS, typ
Short Circuit Protection	Continuous, self-recovering*
Current Limit	130% typ, Self-Reset Foldback

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted or implied.

GENERAL SPECIFICATIONS

On/Off Control	Open Collector Logic "1"/Open=ON Logic "0"/GND=OFF
Input-Out Isolation	3000VAC
Output-Ground Isolation	1000VAC
Input-Ground Isolation	2500VAC
Operating Frequency	140 Khz, fixed
Efficiency (@ Full Load)	75 - 80%, typ

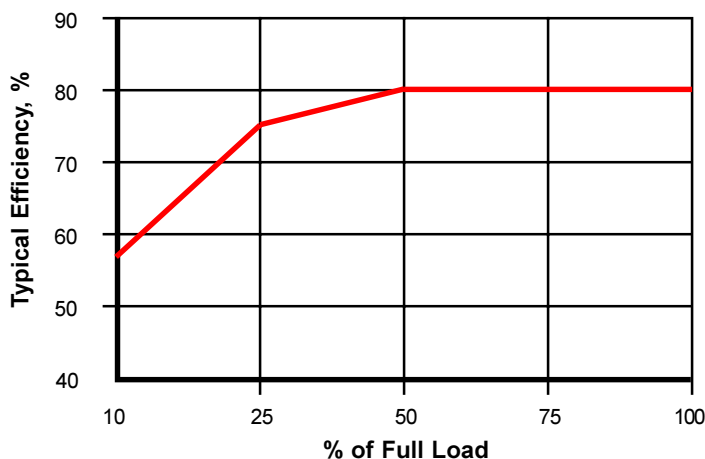
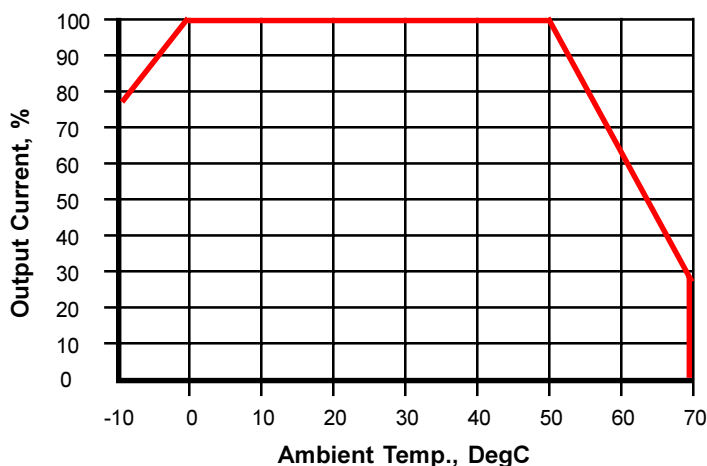
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +50 Deg C (Free-air Convection)
Relative Humidity	0-95%, Non-Condensing
Storage Temperature	-25 to +71 DegC *
MTBF	110,000 Hrs Mil Std 217, 25C

PHYSICAL SPECIFICATIONS

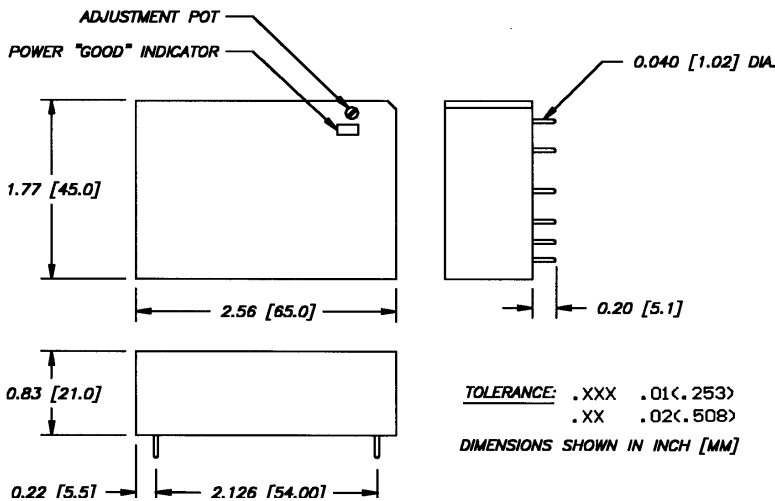
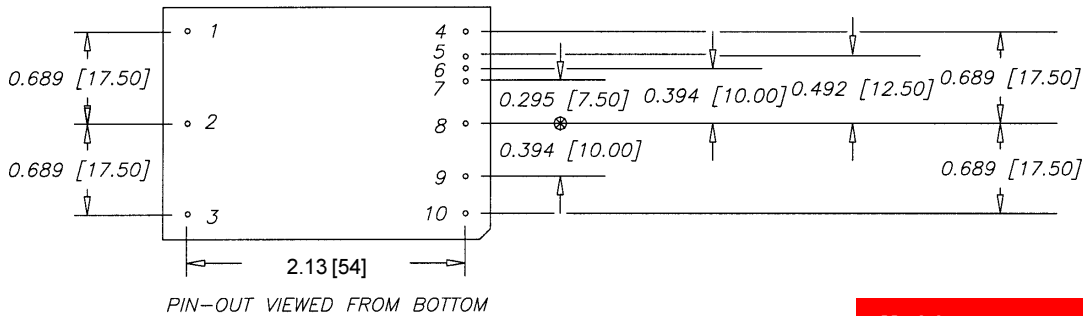
Case Material	Rynite, 94V-0 Rated
Construction	Encapsulated, Soft Pot
Weight PCB / CHA	4.6oz(128g) / 8.5oz(238g)

PERFORMANCE CURVES



MECHANICAL DIMENSIONS

PCB MOUNT



Model Type / Pin#	Single	Dual Matched	Dual 5/12V	Triple
1	AC HI	AC HI	AC HI	AC HI
2	AC LO	AC LO	AC LO	AC LO
3	GND	GND	GND	GND
4	No Pin	No Pin	No Pin	+Vout
5	No Pin	No Pin	No Pin	+/-Com
6	+Vout	+Vout	12Vout	No Pin
7	No Pin	No Pin	No Pin	-Vout
8	No Pin	Out Com	+5Vout	+5Vout
9	-Vout	-Vout	Out Com	5V Ret
10	Ctrl	Ctrl	Ctrl	Ctrl

CHASSIS MOUNT

