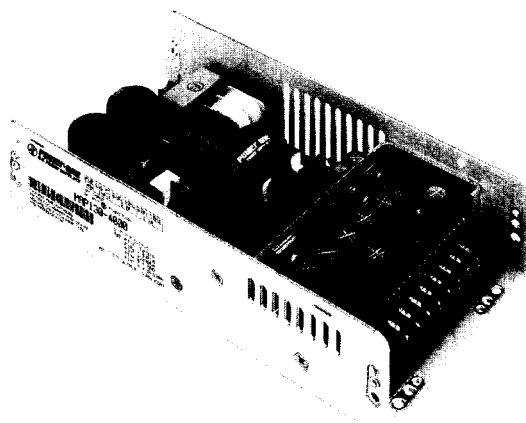




Input voltage range 90...264 V AC
1 or 4 outputs 5...24 V DC
2600 V DC I/O electric strength test voltage



- EN 55002 conducted and radiated limits
- Overtemperature and overload protection
- EMC compliance to EN61000-4-2/3/4

Selection chart

Output 1		Output 2		Output 3		Output 4		Input voltage	Rated power	Type
$U_{o \text{ nom}}$ [V DC]	$I_{o \text{ nom}}$ [A]	$U_{o \text{ nom}}$ [V DC]	$I_{o \text{ nom}}$ [A]	$U_{o \text{ nom}}$ [V DC]	$I_{o \text{ nom}}$ [A]	$U_{o \text{ nom}}$ [V DC]	$I_{o \text{ nom}}$ [A]	U_i [V AC]	$P_{o \text{ tot}}$ [W]	
5	16	-	-	-	-	-	-	90...264	80	MAP 80-1005
5	26	-	-	-	-	-	-	90...264	130	MAP 130-1005
12	7.5	-	-	-	-	-	-	90...264	90	MAP 80-1012
12	12	-	-	-	-	-	-	90...264	144	MAP 130-1012
15	6	-	-	-	-	-	-	90...264	90	MAP 80-1012
15	10	-	-	-	-	-	-	90...264	150	MAP 130-1012
24	3.8	-	-	-	-	-	-	90...264	90	MAP 80-1024
24	6.2	-	-	-	-	-	-	90...264	150	MAP 130-1024
+5	14	+12	4	-5	1	-12	1	90...264	80	MAP 80-4000
+5	14	+12	4	-5	1	+12	3	90...264	80	MAP 80-4010
+5	14	+12	4	-12	1	-5	3	90...264	80	MAP 80-4020
+5	14	+12	4	-12	1	+12	1	90...264	80	MAP 80-4002
+5	14	+15	3.5	-5	1	-15	1	90...264	80	MAP 80-4003
+5	14	+24	2	-12	1	+12	1	90...264	80	MAP 80-4001
+5	14	+24	2	-15	1	+15	1	90...264	80	MAP 80-4004
+5	20	+12	5	-5	1	-12	1	90...264	130	MAP 130-4000
+5	20	+12	5	-5	1	-12	3	90...264	130	MAP 130-4010
+5	20	+12	5	-12	1	-5	3	90...264	130	MAP 130-4020
+5	20	+12	5	-12	1	+12	1	90...264	130	MAP 130-4002
+5	20	+15	4	-5	1	-15	1	90...264	130	MAP 130-4003
+5	20	+24	3.5	-12	1	+12	1	90...264	130	MAP 130-4001
+5	20	+24	3.5	-15	1	+15	1	90...264	130	MAP 130-4004

Input

Input voltage	auto-ranging, continuous ranges	90...135 V AC 175...264 V AC
Input frequency		47...63 Hz
Inrush current	limited by thermistor, $U_i = 264$ V AC, 1 cycle, 25°C	<38 A

Output

Efficiency	115 V AC, $I_{o\ nom}$	typ. 75%
Output voltage ripple and noise	$U_{i\ nom}$, $I_{o\ nom}$, 20 MHz bandwidth, peak-peak	<1%
Voltage regulation	line and load combined	typ. <1%
Minimum load	on MAP 80	max. 1 A
	on MAP130	max. 3 A
Hold-up time	115 V AC, $I_{o\ nom}$	>20 ms

Protection

Input Fuse	non-user serviceable internal AC input line fuse
Output overload	overload and short circuit, automatic recovery
Output overvoltage	latch style
Overtemperature	on MAP130 only

Control

Input power fail warning	TTL compatible signal, warning time	4 ms
Remote sense	MAP130 only, voltage compensation	250 mV

Safety

Agency approvals	UL 1950; CSA 22.2 No. 234/950; EN 60950 (TÜV); CE to LVD	
Electric strength test voltage	I/O per EN 60950	2600 V DC

EMC

Electrostatic discharge	MAP130 IEC/EN 61000-4-2, level 4	8 kV, criterion A
Radiated susceptibility	MAP130 IEC/EN 61000-4-3, level 3	10 V/m, criterion A
Electr. fast transients/burst	MAP130 IEC/EN 61000-4-4, level 3	±2 kV, criterion A
Input surge	IEC/EN 61000-4-5, level 3	2 kV, criterion A
Electromagnetic emissions	CISPR 22/EN 55022, conducted and radiated	class B

Environmental

Operating temperature	convection cooled	0...50°C
	linear derating above 50°C, 2.5 %/°C	50...70°C
Storage temperature	non-operational	-40...85°C
Relative humidity	non-condensing	5...95%
Shock	peak acceleration	20 g _n
Vibration, random	10 Hz to 2 kHz, 3 axes	6 g _{n rms}

Options

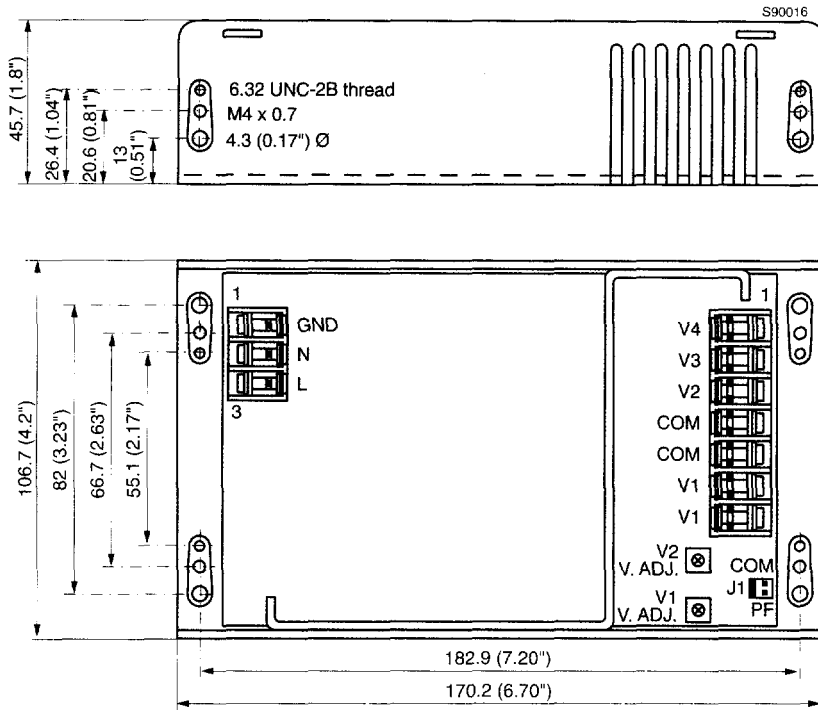
Cover	MAP 80 derate to 65 W, MAP 130 to 120 W	C
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Mechanical data

Tolerances ± 0.3 mm (0.012") unless otherwise indicated.



MAP 80

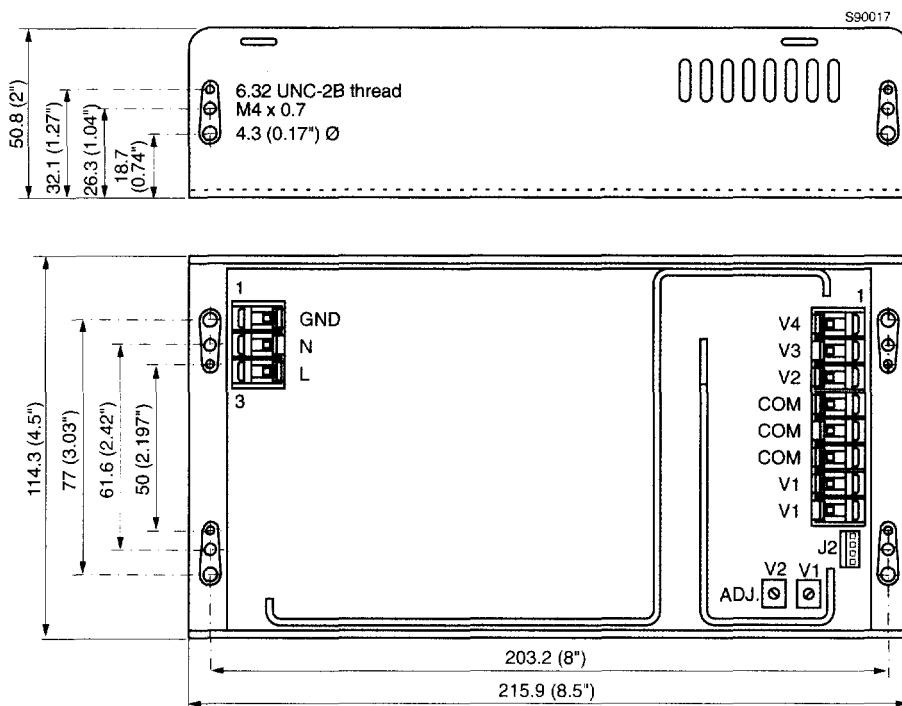


AC input: Mates with 5 circuit Molex connector.

DC output: Mates with 14 circuit Molex connector.

J1: 0.9 mm (0.035") square pins on 2.5 mm (0.1") centers, mates with Molex series 2695 and 6471.

MAP 130



Terminal allocation J2

Pin	MAP 130
1	n.c.
2	+Sense, V1
3	-Sense, V1
4	Power fail warning

AC input: Mates with 5 circuit Molex connector.
 DC output: Mates with 16 circuit Molex connector.
 J2: 0.89 mm (0.035") square pins on 2.54 mm (0.1") centers, mates with Molex series 2695 and 6471.