Table 1-1 PTM Unit Specifications

Model No.	Module Package (1)	Adjustment Range (Vdc)		Current (Adc)				Output Adjust Resolution (mV typ.)
		Min.	Max.	@40°C	@50°C	@60°C	@71°C	
PTM 3-4	I	2.8	3.5	4.0	3.6	2.8	1.6	10
PTM 3-7	II	2.8	3.5	7.0	6.3	4.9	2.8	10
PTM 3-11	III	2.8	3.5	11.0	9.6	7.8	4.4	10
PTM 3-16	IIIB	2.8	3.5	16.0	14.0	11.0	6.5	10
PTM 5-4	I	4.8	5.5	4.0	3.6	2.8	1.6	10
PTM 5-7	II	4.8	5.5	7.0	6.3	4.9	2.8	10
PTM 5-11	III	4.8	5.5	11.0	9.6	7.8	4.4	10
PTM 5-16	IIIB	4.8	5.5	16.0	14.0	11.0	6.5	10
PTM 12-2.7	I	11.4	12.6	2.7	2.4	1.9	1.1	25
PTM 12-4.4	II	11.4	12.6	4.4	4.0	3.1	1.8	25
PTM 12-6.5	III	11.4	12.6	6.5	5.7	4.6	2.7	25
PTM 12-10.5	IIIB	11.4	12.6	10.5	9.5	7.0	4.0	25
PTM 15-2.4	I	14.25	15.75	2.4	2.1	1.7	0.95	25
PTM 15-3.5	II	14.25	15.75	3.5	3.1	2.5	1.6	25
PTM 15-5.5	III	14.25	15.75	5.5	4.9	3.9	2.5	25
PTM 15-9.5	IIIB	14.25	15.75	9.5	8.5	6.5	3.6	25
PTM 24-1.6	I	23	25	1.6	1.4	1.1	0.65	50
PTM 24-2.3	II	23	25	2.3	2.1	1.7	1.1	50
PTM 24-4	III	23	25	4.0	3.6	2.9	1.9	50
PTM 24-6.8	IIIB	23	25	6.8	6.0	4.5	2.7	50
PTM 28-1.4	I	27	29	1.4	1.2	1.0	0.55	50
PTM 28-2	II	27	29	2.0	1.8	1.5	1.0	50
PTM 28-3.5	III	27	29	3.5	3.1	2.6	1.8	50
PTM 28-6.0	IIIB	27	29	6.0	5.5	4.0	2.4	50

Table 1-1 Unit Specifications (Cont'd)

Input current (Amperes Max)

Module	105 - 125 Vac	200 - 240 Vac	210 - 250 V
I	0.8	0.42	0.4
II	1.3	0.68	0.65
III	2.4	1.3	1.2
III B	3.0	1.6	1.5

Case Size

Module	Dimensions in. (mm) Height		Width		Length		Weight lb. (kg)	
I	3.31	(84)	3.88	(98)	6.5	(165)	5.5	(2.5)
II	3.31	(84)	5.13	(130)	6.5	(165)	7.5	(3.4)
III	3.31	(84)	5.13	(130)	9.5	(241)	11.0	(5.0)
III B	5.13	(130)	5.13	(130)	9.5	(241)	13.5	(6.1)

PTM Series Specifications

Input

Voltage:
105 - 125 Vac single phase
200 - 240 Vac single phase
or 210 - 250 Vac selectable by internal tap changes on power transformer.

Frequency:
50 - 440 Hz operation without derating.

Output

Regulation:
Single output.
Line 0.02% + 1mV.
Load 0.03% + 4mV.
Dual output.
Line 0.01% + 1mV.
Load 0.01% + 1mV.

Ripple:
1mVrms, 5mV pk-pk maximum.

Temperature coefficient:
0.01% maximum per °C or 1mV per °C, whichever is greater.

Stability:
0.1% for 24 hours after 30 min. warm-up time.

Transient response time:
Output voltage returns to within ± 20mV band in less than 50μs following a step-load change from either 10% to 100% or 100% to 10% of full load.

Overshoot:
No overshoot at turn-on, turn-off or power failure.

Overvoltage protection:
Automatic, adjustable crowbar action. Factory set to 120% of full load current.

Current limiting:
Automatic fold-back type, internally adjustable 50% to 130% of rated current at 40°C. Factory set to 125%.

Operating data

Remote sensing:
250 mV maximum drop per load lead.

Remote programming:
Resistance programming; 500Ω/V
Voltage programming; Volt/Volt.

Series operation:
200V dc maximum output.

Parallel operation:
May be directly paralleled without derating.

Isolation (breakdown test):
1.3 kV dc input to chassis
300 V dc output to chassis.

Ambient operating temperatures:
0 to +70°C.

Storage temperature:
−40° to +85°C.

Cooling:
Convection cooled.

Finish:
Textured blue thermal paint.

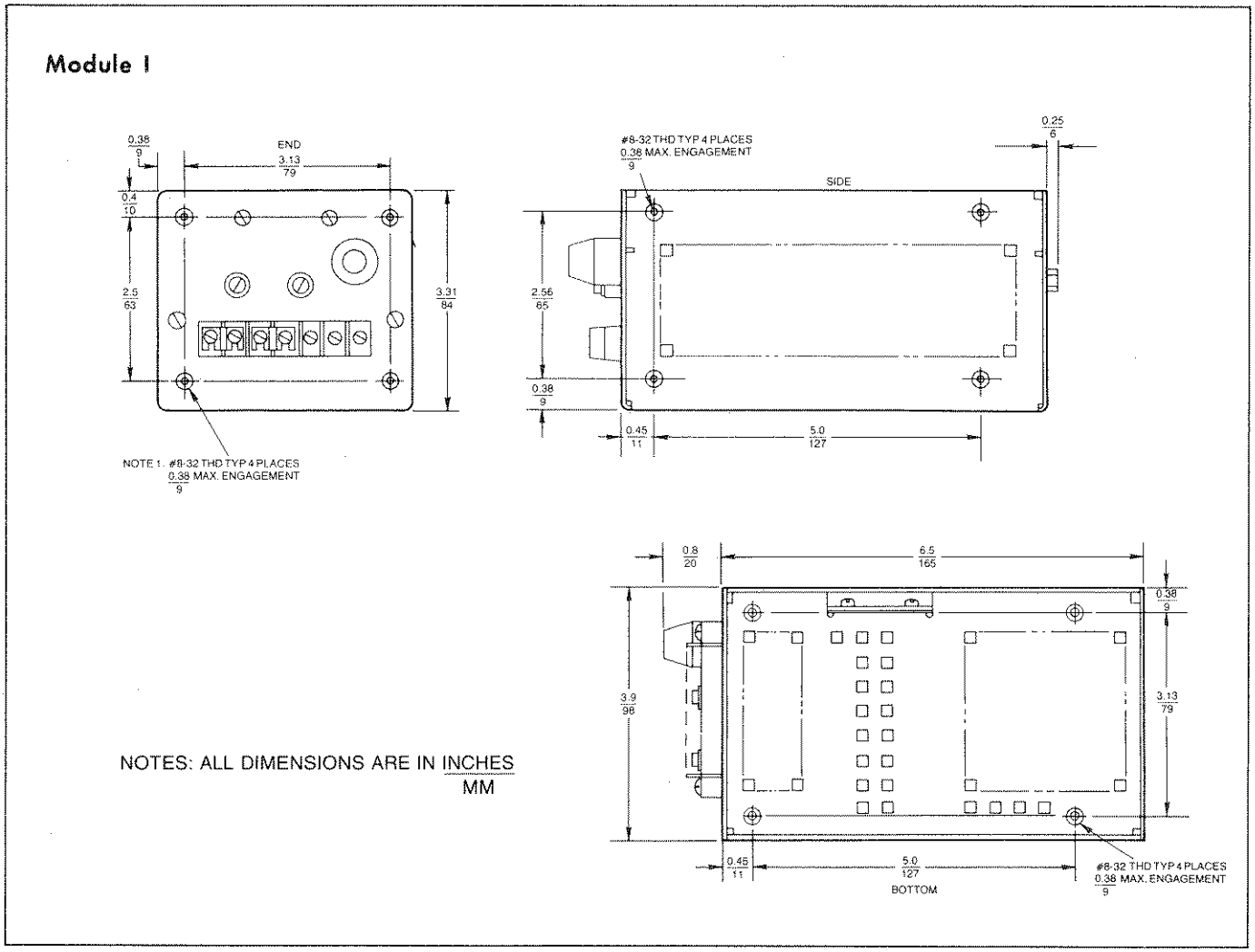
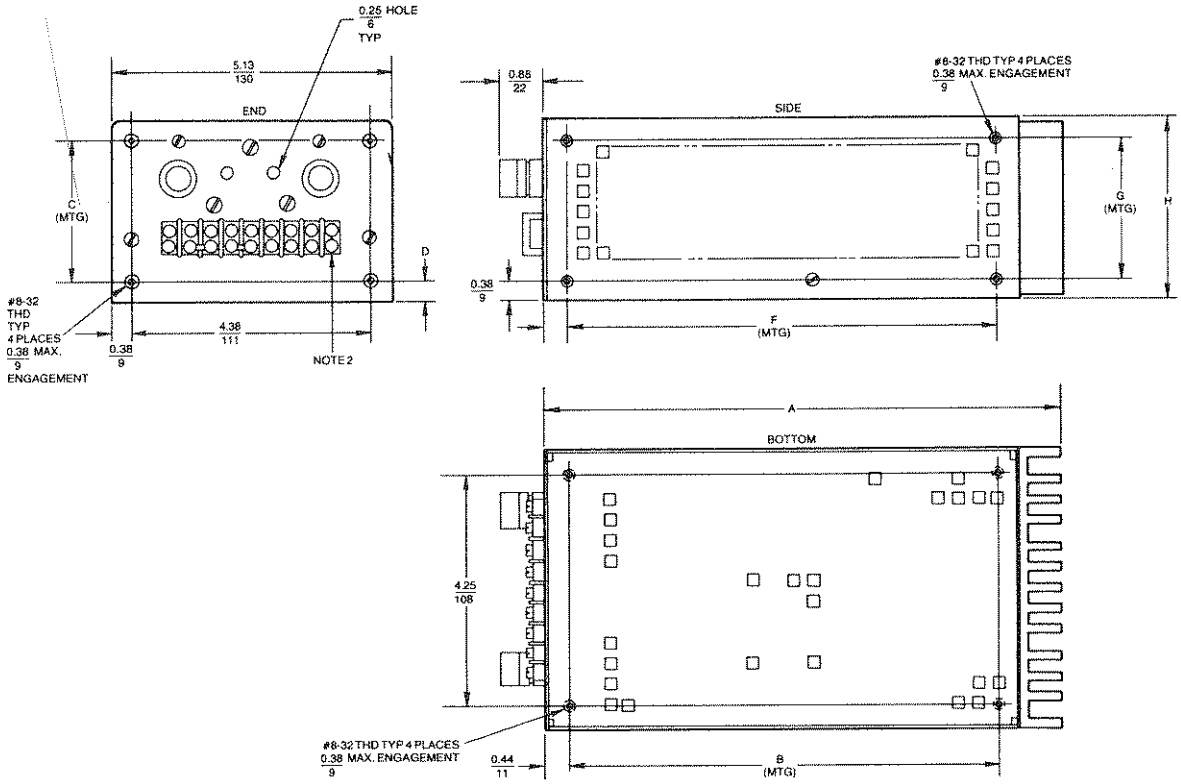


Figure 1-1 PTM Outline Drawing (Module I)

Modules II, III and IIIB



Case	Dimensions A	B	C	D	E	F	G	H
II	6.5 / 165	5.0 / 128	2.5 / 63	0.46 / 11	0.45 / 11	5.0 / 128	2.56 / 65	3.3 / 84
III	9.5 / 241	7.88 / 200	2.5 / 63	0.46 / 11	0.44 / 11	7.88 / 200	2.56 / 65	3.3 / 84
IIIB	9.5 / 241	7.88 / 200	4.38 / 111	0.38 / 9	0.44 / 11	7.88 / 200	4.38 / 111	5.13 / 130

NOTES: ALL DIMENSIONS ARE IN INCHES / MM

NOTE 1: SCREW SIZE #6-32 (EXCEPT FOR PTM DUAL, AC INPUT #5-40).
2: CASE II & III SCREW SIZE #5-40, CASE IIIB & DUALS #6-32).

Figure 1-2 PTM Outline Drawing (Modules II, III, IIIB)