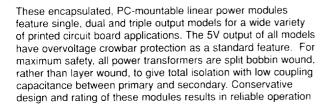
## PM500 SERIES

### Single, dual and triple outputs

Recommended for new design-ins

- OVP on 5V outputs
- Split bobbin wound
- **PCB mounting**
- UL and CSA approved
- 115, 220 and 240VAC input
- Short circuit protection
- The VM500 Series has EN60950 approval





#### **2 YEAR WARRANTY**

and long life. Standard input voltage is 115VAC; other optional inputs are 220 and 240VAC. Most models are available in standard and alternate pin configurations for second sourcing applications. This series includes sub-miniature modules for lower power applications where minimum circuit board space is available.

#### **SPECIFICATION**

ALL SPECIFICATIONS ARE TYPICAL AT NOMINAL INPUT, FULL LOAD AND 25 C UNLESS OTHERWISE STATED

<b>GUTPUT SPECIFICATI</b>	SNS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Voltage accuracy		±1.	0% max.
Voltage adjustability	PM529 and PM563 o	only	Yes
Line regulation		(	See table
Load regulation		5	See table
Temperature coefficient	**	±(	0.02%/ C
Overvoltage protection	See table on facing page for relevant mo		2V typical
Output power limit	Typical	130% to	200% FL
Short circuit protection	Switch off/on	100% to	200% FL
ANT FLOREST CATION	i <b>s</b>		eridan siri
Input voltage range		See tab	es below
Input frequency range	PM500, See Note 3	47Hz	to 400Hz
Safety ground leakage current		Less tha	an 3.5mA @ 50Hz

PM500 MPUT VOLTAGE	SUFFIX
115±10VAC	(NONE)
220±20VAC	D

GENERAL SPECIFICAT	TIONS				
Efficiency		40% typical			
Isolation voltage	PM series, no suffix PM series, suffix D	700VAC 2500VAC			
Switching frequency		Linear			
Approvals and standards	Safety PM5xx CSA2	2.2-143/-154. UL478			
Case material		Non-conductive black plastic			
Weight	Case A Case B1 Case B2 Case B3 Case H	181g (6.4oz) 340g (12oz) 408g (14.4oz) 635g (22.4oz) 227g (8oz)			
MTBF	See Note 4	710,000 hours			
ENVIRONMENTAL SPECIFICATIONS					
Thermal performance	Operating amb. Non-operating amb. Derating, 50°C to 71 Cooling	-25"C to +71"C -25"C to +85"C "C 2.5%/"C Free-air convection			
Relative Humidity	Non-condensing	20% to 95% RH			
Vibration		Encapsulated			

# 1 to 10.5 Watt AC/DC encapsulated modules

OUTPUT VOLTAGE	OUTPUT CURRENT	QVP			RIPPLE AND	CASE	AVAILABLE MODELS	
			LINE	LGAD	NOISE	o applications	110VAC	220VAC
				SINGLE OUTF	TUT			
5VDC	250mA	Yes	±0.02%	±0.04%	1mV rms	B1		PM533D
5VDC	1000mA	Yes	±0.02%	±0.04%	1mV rms	B2	PM542	
5VDC	2000mA	Yes	±0.02%	±0.05%	1mV rms	В3	PM545	
12VDC	400mA	No	±0.02%	±0.02%	1mV rms	В3		PM516D
12VDC	600mA	No	±0.02%	±0.02%	1mV rms	В3		PM517D
24VDC	100mA	No	±0.02%	±0.02%	0.5mV rms	B2		PM566D
24VDC	200mA	No	±0.02%	±0.02%	0.5mV rms	B3		PM567D
24VDC	400mA	No	±0.02%	±0.02%	1mV rms	В3		PM568D
			SUB MINIA	TURE SINGLE OF	JTPUT SERIES	(1)		
5VDC	250mA	No	±0.05%	±0.05%	0.5mV rms	Н		PM529D
12VDC	100mA	No	±0.02%	±0.02%	0.5mV rms	Α	PM563	PM563D
	•			DUAL OUTP	JT			
±12VDC	±25mA	No	±0.02%	±0.02%	2mV rms	B1	PM509	PM509D
±12VDC	±120mA	No	±0.02%	±0.02%	0.5mV rms	B1	PM536	PM536D
±12VDC	±240mA	No	±0.02%	±0.02%	0.5mV rms	B2		PM537D
±12VDC	±400mA	No	±0.02%	±0.02%	0.5mV rms	В3	PM597	PM597D
±15VDC	±100mA	No	±0.02%	±0.02%	0.5mV rms	B1	PM505	-
±15VDC	±350mA	No	±0.02%	±0.02%	1mV rms	B3	PM501	
		•		TRIPLE OUTPL	JT (2)	-		
5V/±12VDC	300/±180mA	No	±0.02%	±.05%/±.02%	0.5mV rms	B2	1	PM595D
5V/±12VDC	500/±120mA	No	±0.02%	±.05%/±.02%	0.5mV rms	B2		PM591D
5V/±12VDC	1000/±150mA	Yes	±0.02%	±.01%/±.02%	1.0/0.5mV rms	В3	PM592	
5V/±15VDC	300/±150mA	Yes	±0.05%	±.10%/±.05%	0.5mV rms	B2	PM594	
5V/±15VDC	500/±100mA	Yes	±0.05%	±.10%/±.05%	0.5mV rms	B2	PM590	
5V/±15VDC	1000/±150mA	Yes	±0.02%	±.01%/±.02%	1.0/0.5mV rms	B3	PM593	

#### Notes

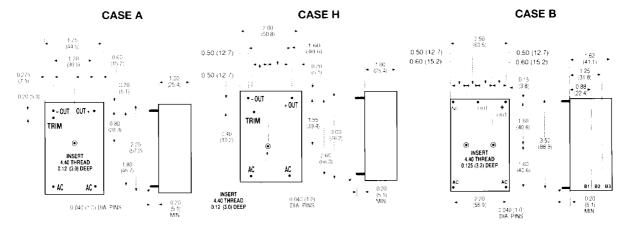
- Trim connection on all sub-miniature series modules provides a means of externally adjusting a units output voltage precisely to its labelled value. To externally adjusting a units output voltage precisely to its labelled value. To raise the output voltage, connect a resistance (20k1), min.) between the trim terminal and the positive (+) output terminal. To lower the output voltage, connect a resistance (20k1), min.) between the trim terminal and the negative (-) output terminal.
- Triple output models only: on standard pin-out models the 5V output common is isolated from the ±12VDC or ±15VDC common.
  Some units should be derated for operation at 400Hz. Please contact the factory for details.
- M.T.B.F. figures are based on actual product performance. Consult factory
- All models are only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.



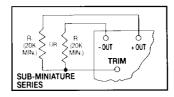
Call Toll-Free: (East) 800-733-9288 • (West) 800-769-7274

# 1 to 10.5 Watt AC/DC encapsulated modules

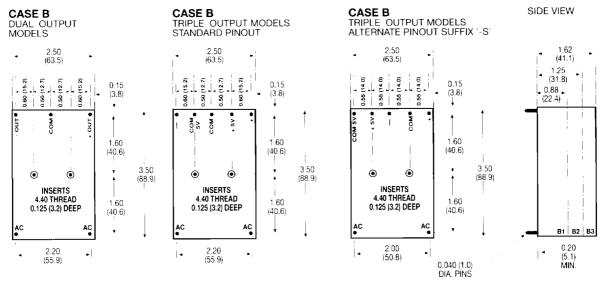
#### Single output PM500 series



ALL DIMENSIONS IN INCHES (mm)



#### Dual and triple output PM500 series



ALL DIMENSIONS IN INCHES (min)

#### International Safety Standard Approvals

**N** UL478 Reg. File No. E131987

CSA22.2-143 and -154 Reg. File No. LR59996