PMT SERIES

600 to 1500V, 0.5 to 1W
Standard DC/DC Modules

Features

- Microsize High Voltage Power Supplies
- Regulated Output Voltage from V_{OUT} Max to True Zero
- Low Ripple
- Indefinite Output Short Circuit Protection
- Reverse Input Protection
- Low-Stored-Energy Design
- UL/cUL Recognized Component; CE Mark (LVD and RoHS)

Specifications

	Conditions	Value			Units
Input		**0.5W**	**0.8W**	**1W**	
Voltage	Nominal	+12	+15	+24	VDC
Current	Full Load, Max V_{OUT}		150		mA
Output					
Ripple	Full Load, Max V_{OUT}		<0.005		%Vp-p
Static Load Regulation	No Load to Full Load, Max V_{OUT}		<0.02		%VDC
Line Regulation	Nominal Input, Max V_{OUT}, Full Power		<0.01		%VDC
Programming & Controls					
Adjust Logic (V_{ADJ})	Positive and Negative Models		0 to +5		VDC
Reference Voltage (V_{REF})	Temperature +25°C		+5 ± 0.5%		VDC
Voltage Monitor	-		1		V/kVDC
Environmental					
Operating Temperature[1]	Case Temperature, Full Load, Max V_{OUT}		-10 to +65		°C
Temperature Coefficient	Over the Specified Temperature		0.01		%/°C
Thermal Shock	Mil-Std-810, Method 503-4, Proc. II		-40 to +85		°C
Storage Temperature	Non-Operating, Case Temperature		-40 to +85		°C
Humidity	All Conditions, Standard Package		0 to 95% Non-Condensing		-
Altitude	All Conditions, Standard Package		Sea Level through Vacuum		-
Shock	Mil-Std-810, Method 516.5, Proc IV		20		G
Vibration	Mil-Std-810, Method 514.5, Fig 514.5C-3		10		G

[1]Typically, convection cooled. Units operating at full power might require additional cooling to maintain case temperature below 65°C. Damage to the power supply may occur if not appropriately cooled during use.

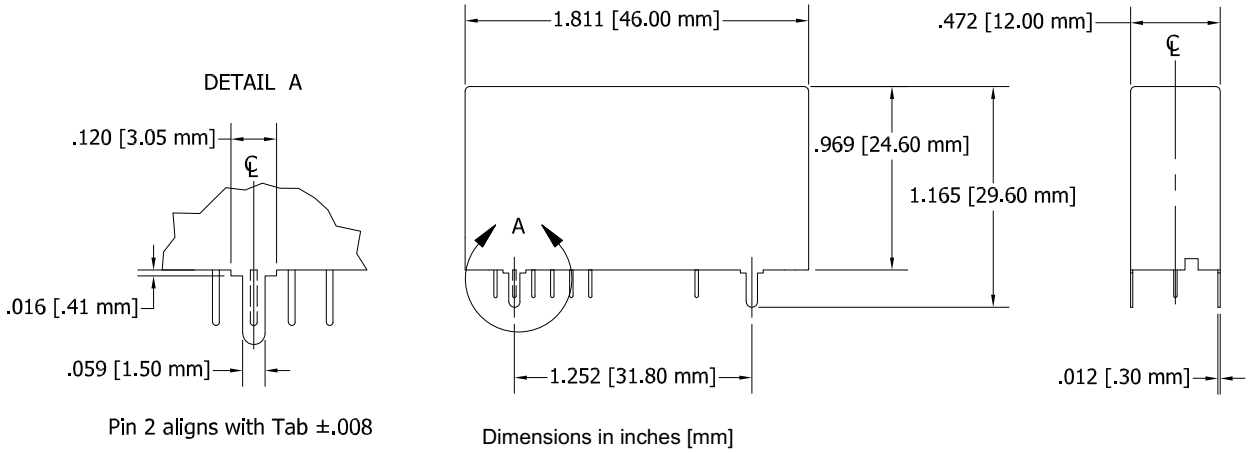
Part Number[2]	Output Voltage VDC	Output Current mA
0.5W Models		
PMT-12-600•-0.5	0 to 600	0.83
PMT-12-1000•-0.5	0 to 1000	0.50
PMT-12-1250•-0.5	0 to 1250	0.40
PMT-12-1500•-0.5	0 to 1500	0.33

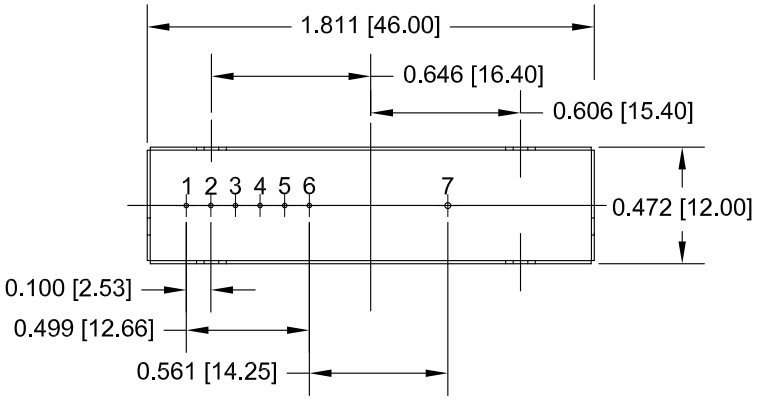
Part Number[2]	Output Voltage VDC	Output Current mA
0.8W Models		
PMT-15-600•-0.8	0 to 600	1.33
PMT-15-1000•-0.8	0 to 1000	0.80
PMT-15-1250•-0.8	0 to 1250	0.64
PMT-15-1500•-0.8	0 to 1500	0.53

Part Number[2]	Output Voltage VDC	Output Current mA
1W Models		
PMT-24-600•-1	0 to 600	1.67
PMT-24-1000•-1	0 to 1000	1.00
PMT-24-1250•-1	0 to 1250	0.80
PMT-24-1500•-1	0 to 1500	0.67

[2]For "•", substitute "P" for positive output or "N" for negative output

Mechanical Drawings and Pin Assignments





Mechanical Specifications		
Volume	0.83in^3 [13.6cm^3]	
Weight	1.2oz [35g]	
Case	Steel	
Pins	Pins Diameter	0.018in [0.46mm]
	Pin Length	0.147in [3.74mm]
	(Drilling Data for PC Board – Soldering Face)	

Pin Assignments & Connections		
Pin 1	VIN	Positive Power Input
Pin 2	PGND	Input Power Ground Return
Pin 3	SGND	Signal Ground Return
Pin 4	VCTRL	Voltage Control
Pin 5	VREF	Voltage Reference
Pin 6	VMON	Output Voltage Monitor
Pin 7	HV	High Voltage Output

Certifications and Compliances

CE

cULus
File Number E484837

RoHS COMPLIANT