

PSD4825-3-5

Main Features

- 2:1 Input Range
- 25W Isolated Output
- Efficiency up to 82%
- Remote On/Off Control
- 300 KHz Switching Frequency
- Five-sided shield
- 2x2x0.5 inch (51.9x51.9x13.3 mm)



SPECIFICATIONS	Min	Typical	Max	unit
Input voltage	-0.2		100	VDC
Working voltage	36	48	72	VDC
Start up voltage		33.5	35.5	VDC
Turn On Hysteresis		3		VDC
Turn off Max input		78		VDC
Input filter	36	66		uF
Output 1 (Line+Load) 0.5-2.0Amp	4.87	5.05	5.20	VDC
Output 2 (Line+Load) 0.5-3.5Amp	3.15	3.31	3.45	VDC
Output 1 (Line+Load) 0.5-2.0Amp	4.80	5.05	5.20	VDC
Output 2 (Line+Load) 0.5-3.5Amp	3.10	3.31	3.55	VDC
Line Regulation			0.3	%
Output1 current	0.25		2	Amp
Output2 current (see figure 1)	0.17	3.5	4.5	Amp
Output Ripple: (1&2)		60	100	mV p-p
Output Ripple:		15	20	mV RMS
Transient Response to 1% (25% Load step)		150	500	uSec
Over Voltage Limit (3.3V)	3.8	3.9	4	VDC
Over Voltage Limit (5V)	5.75	5.85	5.95	VDC
Current limit		200%	250%	I _{max}
Short Current Protection		30%		I _{max}
Efficiency (48 V-F.L 25°C)	78	80.3	82	%
Switching frequency		300		KHz
Operating temperature	-25		+71	°C
Max. Base Plate temperature			+100	°C
Storage temperature	-40		+105	°C
Insulation Voltage IN/OUT/CASE	750			VDC

NOTES:

1. All specifications typical at nominal line, Full Load, and 25°C Unless Otherwise Noted.
2. 5V & 3.3V must be loaded with minimum load for proper operation.
3. remote control option(order with suffix R) open collector type
on/off pin - open =ON low=OFF
Control Common - Referenced to Input
Shutdown idle current 5mA
4. Ripples were measured with external capacitor of 22uF/TANT.

AGMA Power Systems Ltd. Website: www.agma.co.il Email: info@agma.co.il

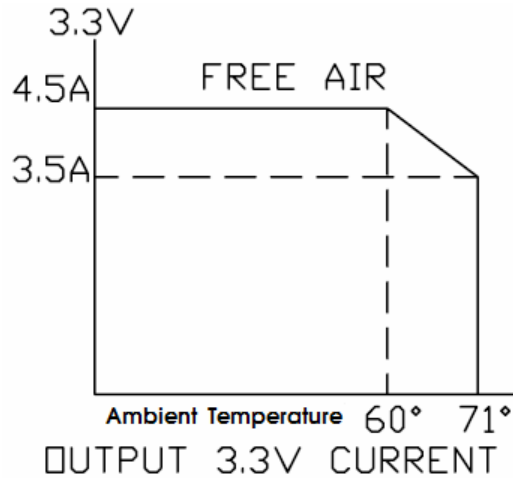


Figure 1: Derating of output 3.3V current

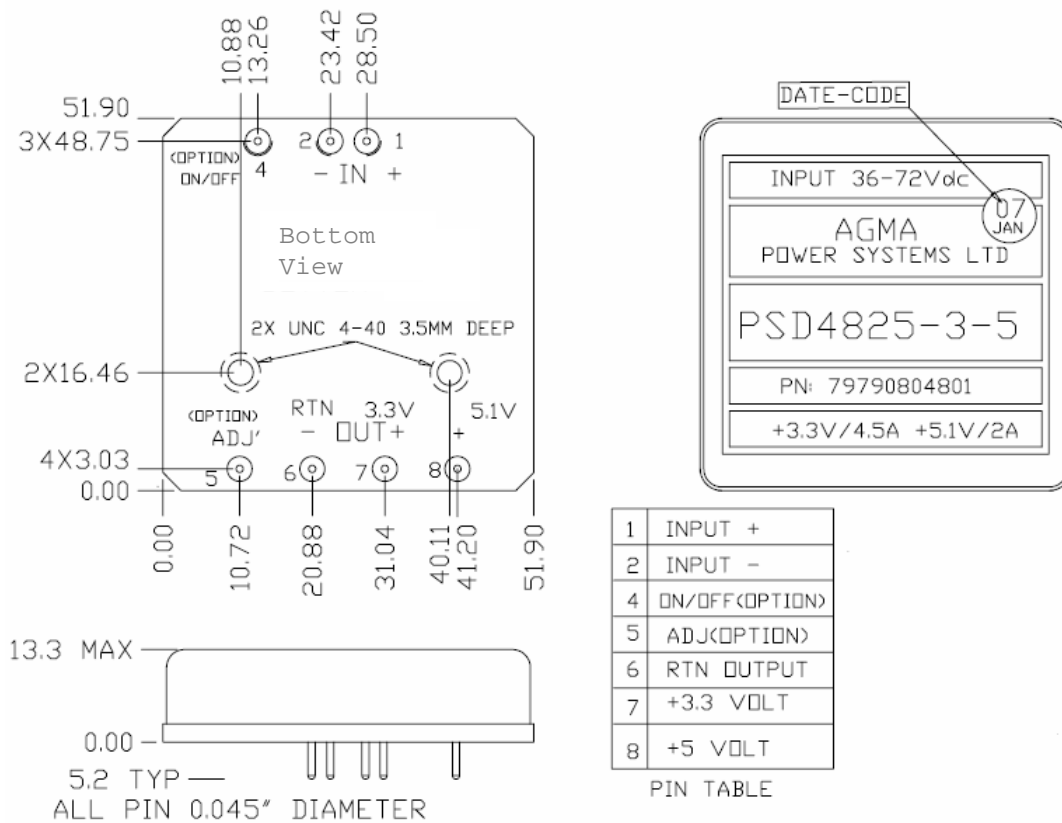


Figure 2: outline dimensions – Pin on/off and adjust are optional