



Open Frame



Baseplate

Quarter Brick Power Supply Specifications

- ◆ Low Voltage Outputs (1.2-5.0V)
- ◆ High Power Density up to 90.4W/in³
- ◆ Industry Standard Footprint & Pinouts
- ◆ Safety Agency Approvals (UL1950, CSA22.2, CE, TUV)
- ◆ Constant Current Limit (Auto Restarting)
- ◆ Remote On / Off (Positive/Negative Logic Available)
- ◆ ASIC Design to Reduce Component Count

Key Market Segments & Applications

Central Office:	ATM, Sonet, DSL, ISDN, Frame Relay, WDM
Broadband:	Switching Equipment, Routers
Wireless/Cellular:	Micro Cells (larger in size/10 sq. mi.) Pico Cells (smaller in size/1 to 2 sq. mi.)
Remote Electronics:	Fixed Local Loop, Fiber Optic Transmission, Microwave Transmission, Wireless Local Loop
Customer Premise:	PBX, PABX, Datacomm, Voice Systems, Video Conferencing
Industrial	ATE Test Equipment & Semi-Fab

PAQ Features and Benefits

Feature

- ◆ Industry Standard footprint/pinout
- ◆ ASIC Design
- ◆ Wide Range Operating Temperature (-40 to 100°C)
- ◆ High Efficiency 89% at 3.3V (PAQ100)

Benefit

- ◆ Allows for multi-sourcing
- ◆ Reduces number of components
- ◆ Supports Harsh Wireless Operating Environment
- ◆ Reduce footprint area/Operation without heatsink

Specifications

ITEMS	MODEL	PAQ100S48-1R2	PAQ100S48-1R8	PAQ100S48-2R5	PAQ100S48-3R3	PAQ100S48-5
Nominal Output Voltage	V	1.2	1.8	2.5	3.3	5
Max Output Current	A	25	25	25	25	20
Max Output Power	W	30	45	62.5	82.5	100
Efficiency (Typ.)	(*1)	%	80	84	86	89
Input Voltage Range	-			36 - 76VDC		
Input Current (Typ.)	(*1)	A	0.8	1.14	1.55	1.98
Output Voltage Accuracy	(*1)	%			±1	
Output Voltage Range	(*4)	-		-20%, +10%		±15%
Max Ripple & Noise	(*4)	mV	100	100	100	100
Max Line Regulation	(*2)	mV	10	10	10	10
Max Load Regulation	(*3)	mV	10	10	10	10
Over Current Protection	-			105% - 140% (Self-Recovering /N option)		
Over Voltage Protection	-			120% - 140% (Self-Recovering /N option)		
Remote ON/OFF Control	-			Low=On, Open=Off (/P option: Low=Off, Open=On)		
Operating Temperature	(*5)	C		Ta = -40° - +85° (100°C /B Option)		
Cooling	(*5)	-		Convection Cooled / Forced Air Cooled		
Isolation Voltage	-			Input-Output : 1.5kVDC for 1min		
Shock	-			196.1m/s ²		
Weight (Typ.)	g			50		
Vibration	-			Non Operating, 10-55Hz (Sweep for 1min.)		
Size (W×H×D)	in			Amplitude 0.825mm Constant (Maximum 49.0m/s ²) X, Y, Z 1 hour each		
Warranty	-			1.45" x .33" x 2.3"; .5" height (/B Option)		
				2 years		

Notes:

*1. At 48VDC, maximum output current, Air Velocity = 2m/s and Ta = +25°C.

*2. 36 - 76VDC, constant load.

*3. No load - Full load, constant input voltage.

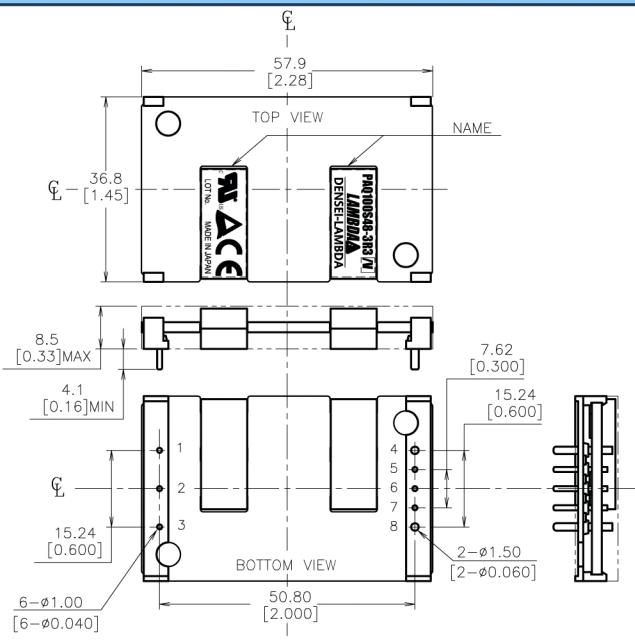
*4. External components are needed for operation.

*5. Refer to installation manual (website).

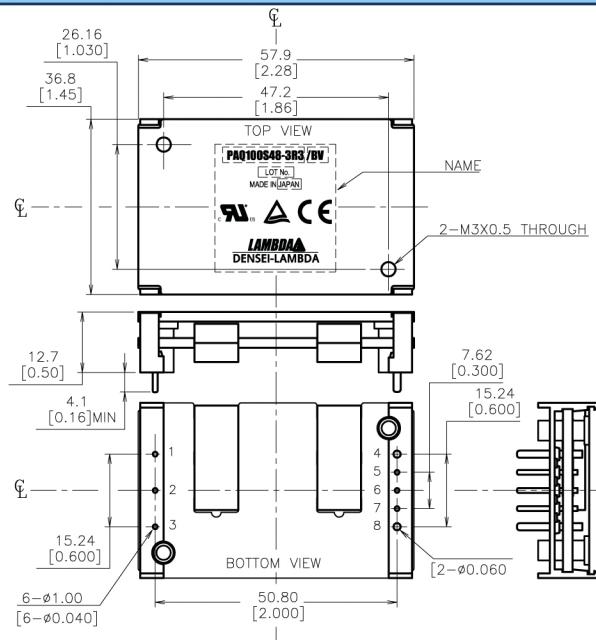
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PAQ100 Openframe Drawing



PAQ100 Baseplate Drawing



PAQ Series Outputs

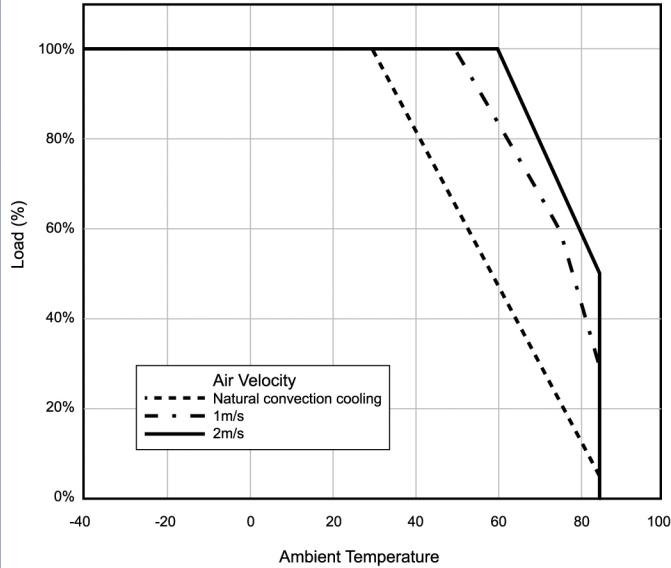
PIN#	Label	Function
1	-Vin	Negative Input Terminal
2	CNT	ON/OFF Control Terminal
3	+Vin	Positive Input Terminal
4	-V	Negative Output Terminal
5	-S	Negative Remote Sensing
6	TRM	Output Voltage Adjustment Terminal
7	+S	Positive Remote Sensing
8	+V	Positive Output Terminal

PAQ Series Options

Suffix	Description
Blank	Manual Reset after OVP or OCP condition
/V	Auto Reset after OVP or OCP condition
/P	Positive Logic Remote On/Off
/B	Baseplate version

/V, /PV, /BV, /BPV are Standard US stock items.

PAQ100 Derating Curve



Note: Open Frame PAQ100S48-3.3/V unit shown.

For Additional Information, please visit www.lambdapower.com/products/paq-series.htm

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