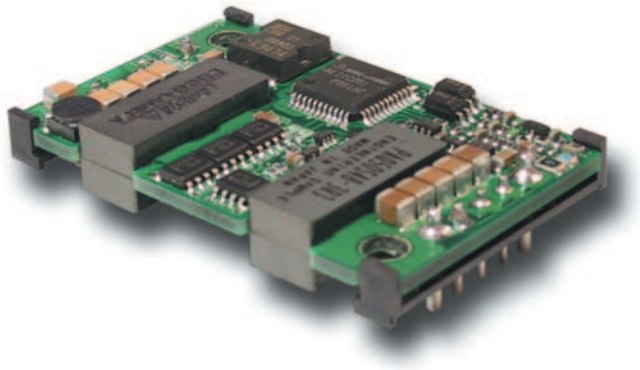
Quarter Brick Power Supply Specifications

Features

- Low Voltage Outputs (1.2-5.0V)
- Industry Standard Footprint & Pinouts
- Safety Agency Approvals (UL1950, CSA22.2, CE, TUV)
- Constant Current Limit (Auto Restarting)
- Remote On / Off
- ASIC Design to Reduce Component Count
- Wide Range Operating Temperature (-40 to 100°C)
- High Efficiency 88% at 3.3V (PAQ50)



Open Frame

Key Market Segments & Applications

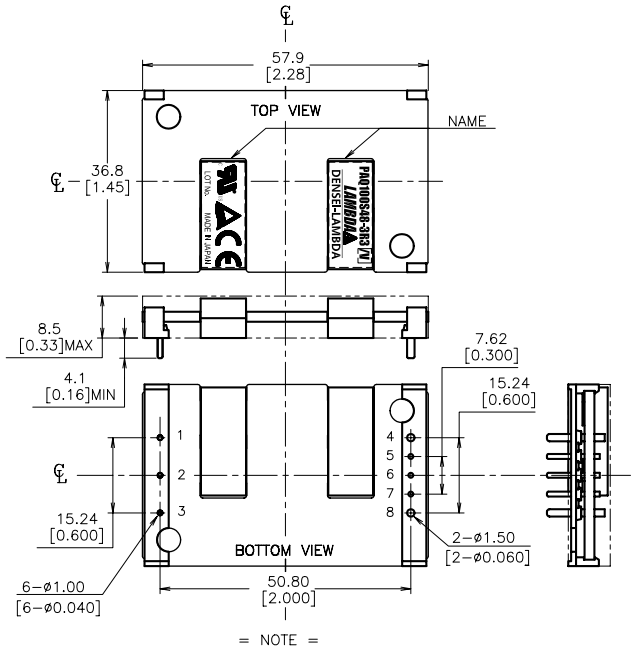


Specifications

Model			PAQ50S48-1R2	PAQ50S48-1R8	PAQ50S48-2R5	PAQ50S48-3R3	PAQ50S48-5
Nominal Output Voltage		V	1.2	1.8	2.5	3.3	5
Max Output Current		A	12	12	12	12	10
Max Output Power		W	14.4	21.6	30	39.6	50
Efficiency (Typ.)	(1)	%	78	83	85	88	90
Input Voltage Range		-	36 - 76VDC				
Input Current (Typ.)	(1)	A	0.39	0.56	0.75	0.96	1.18
Output Voltage Accuracy	(1)	%	±1				
Output Voltage Range	(6)	-	-20%, +10%			±15%	
Max Ripple & Noise	(6)	mV	100	100	100	100	100
Max Line Regulation	(2)	mV	10	10	10	10	10
Max Load Regulation	(3)	mV	10	10	10	10	10
Over Current Protection		-	105% - 150% (Self-Recovering /V option)				
Over Voltage Protection	(4)	-	120% - 140% (Self-Recovering /V option)				
Remote ON/OFF Control		-	Low=On, Open=Off (/P option: Low=Off, Open=On)				
Operating Temperature	(5)	C	Ta= -40° - +85°				
Cooling	(5)	-	Convection Cooled / Forced air cooled				
Isolation Voltage		-	Input-Output : 1.5kVDC for 1min				
Shock		-	20G				
Weight (Typ.)		g	50				
Vibration		-	Non Operating, 10-55Hz (Sweep for 1min.)				
		-	Amplitude 0.825mm Constant (Maximum 49.0m/s^2) X, Y, Z 1 hour each				
Size (W×H×D)		in	1.45” x .33” x 2.3”				
Warranty		yrs	Two years				

Notes:
(1) At 48VDC, maximum output current, Air Velocity = 2m/s and Ta = +25°.
(2) 36 - 76VDC, constant load.
(3) No load - Full load, constant input voltage.
(4) Inverter shutdown method, manual reset. Auto restart option available.
(5) Refer to derating curve.
(6) External components are needed for operation.

PAQ50 Openframe Drawing

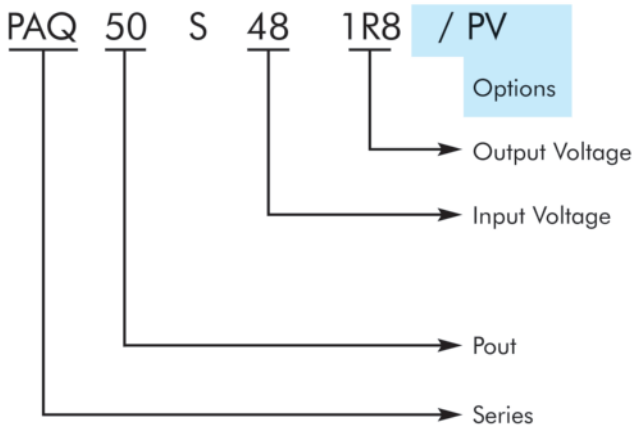


PAQ Series Options

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

/V, /PV are Standard US stock items.

PAQ Series Model Number Example

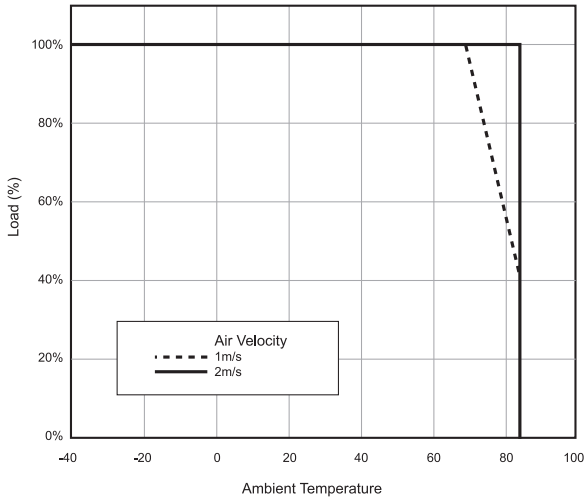


Pinout

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

For Additional Information, please visit
us.tdk-lambda.com/lp/products/paq-series.htm

PAQ50 Derating Curve



Note: Open Frame PAQ50S48-3.3/V unit used as a standard curve.