

Excellent Integrated System Limited

Stocking Distributor

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[TDK-Lambda Americas, Inc.](#)

[IEH48025A120V109R](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

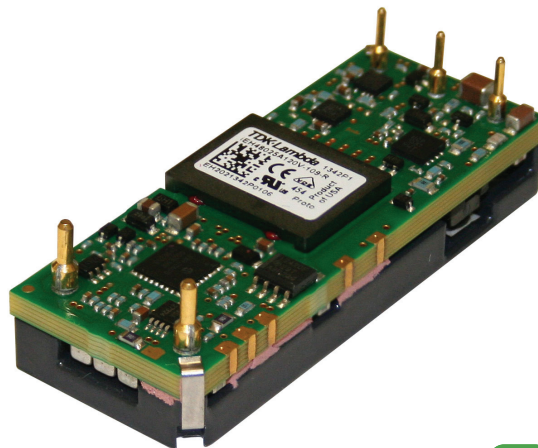
TDK-Lambda

iEH Series

300W Eighth Brick Converter

Features

- ◆ Standard Eighth Brick Footprint
- ◆ 36-75VDC Input
- ◆ 12V Nominal Output
- ◆ Through Hole Mounting
- ◆ 2250VDC Basic Isolation
- ◆ Digital adaptive control for fast transient response
- ◆ High Operating Efficiency (up to 94.6%)
- ◆ Constant Switching Frequency
- ◆ Baseplate Cooled



Key Market Segments & Applications



Specifications		Model		iEH	
Nominal Output Voltage	VDC		10.8		12
Input Voltage Range	VDC		36-75*		
Ripple & Noise (max) (pk-pk) (1)	mV		150		120
Line Regulation (max)	mV		50		60
Load Regulation (max)	mV		100		60
Overload Protection Threshold (3)	A		36		29.5
Overvoltage Protection (Typ) (2)	VDC		13.1		14.8
Overtemperature Protection (3)	-		Yes		
Remote On / Off	-		Negative Logic		
Temperature (operating)	°C		-40 to 124		-40 to 130
Temperature (storage)	°C		-55 to 125		
Humidity (operating)	%RH		20-95% RH Non condensing		
Humidity (storage)	%RH		10-95% RH Non condensing		
Cooling	-		Conduction, convection or forced air (see detailed datasheet for derating)		
Isolation Voltage	VDC		2250VDC Input to Output, 1500VDC Input to Baseplate		
Vibration (non operating)	-		5-50Hz @ 0.5g (4.9m/s ²), and 50-500Hz @ 1.5g (14.7m/s ²) per Bellcore TR-EOP-000063-5.4.4		
Shock	-		196.1m/s ²		
Safety Agency Approvals	-		UL60950 (US and Canada), CB scheme IEC 60950-1 (2nd edition) AM1, CE Mark EN 60950-1/A12		
Weight (max)	g		50		
Size	mm/in.		50.42 x 22.86 x 12.70 / 2.02 x 0.9 x 0.49		
Warranty	yrs		3 Years		

*When operating below 40V input, the module will operate, but load regulation may be out of specification.

(1) See website for detailed specification and test methods.

(2) See model selector

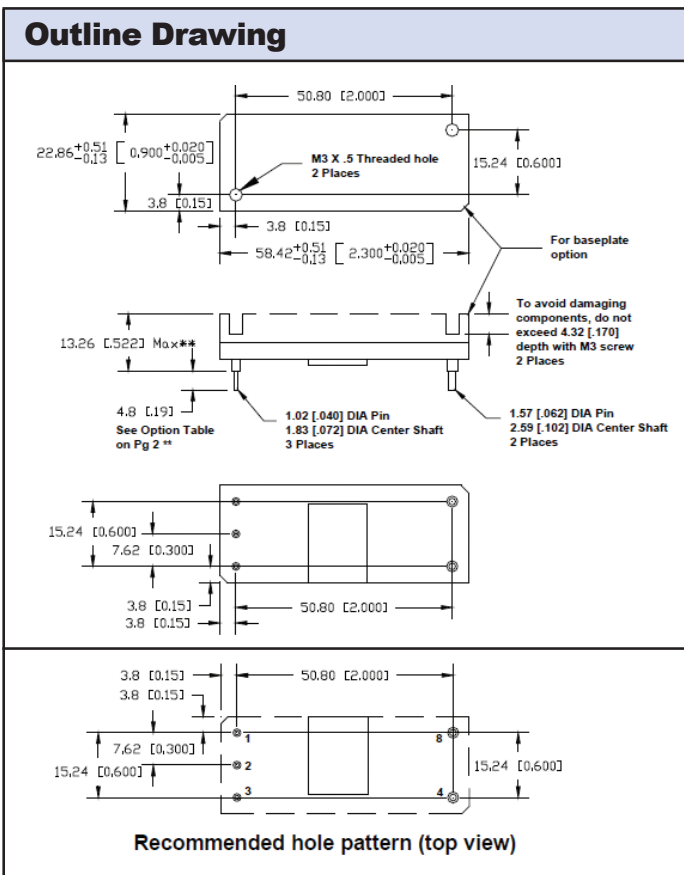
(3) Non-Latching

TDK-Lambda

IEH Series

Model Selector									
Model	Input Voltage (V)	Output Voltage (V)	Drop Share	Max. Curr. (A)	Max. Output Power (W)	Base Plate	OVP	Efficiency at Full Load (%)	Pin Length
iEH48028A108V-103-R	36-75	10.8	No	28	300	Yes	Non-Latch	94	0.145
iEH48028A108V-109-R	36-75	10.8	No	28	300	Yes	Latch	94	0.190
iEH48025A120V-003-R	36-75	12	No	25	300	No	Non-Latch	94.6	0.145
iEH48025A120V-103-R	36-75	12	No	25	300	Yes	Non-Latch	94.6	0.145
iEH48025A120V-107-R	36-75	12	No	25	300	Yes	Non-Latch	94.6	0.190
iEH48025A120V-109-R	36-75	12	No	25	300	Yes	Latch	94.6	0.190

Preferred model



Pinout			
PIN	Function	PIN	Function
1	Vin (+)	5	none
2	On / Off	6	none
3	Vin (-)	7	none
4	Vo (-)	8	Vo (+)

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

