

300-317W Eighth Brick Converter

Features

- ◆ Standard Eighth Brick Footprint
- ◆ 36-75, 38-55VDC Inputs
- ◆ 9.6V, 10.2V, 10.8V or 12V Nominal Outputs
- ◆ Through Hole Mounting
- ◆ 2250VDC Basic Isolation
- ◆ Digital adaptive control for fast transient response
- ◆ High Operating Efficiency (up to 95.5%)
- ◆ Constant Switching Frequency
- ◆ Baseplate Cooled
- ◆ Parallel Operation (9.6V & 10.2V models)



Key Market Segments & Applications



Specifications

Model		iEH			
Nominal Output Voltage	VDC	9.6	10.2	10.8	12
Input Voltage Range	VDC	45-55	38-55	36-75	36-75*
Ripple & Noise (max) (pk-pk) (1)	mV	90	175	150	120
Line Regulation (max)	mV	40	40	50	60
Load Regulation (max)	mV	-	-	100	60
Overload Protection Threshold (3)	A	40.5	35	36	29.5
Oversvoltage Protection (Typ) (2)	VDC	12.1	12.3	13.1	14.8
Overtemperature Protection (3)	-	Yes			
Remote On / Off	-	Negative Logic			
Temperature (operating)	°C	-40 to 125	-40 to 125	-40 to 124	-40 to 130
Temperature (storage)	°C	-55 to 125	-55 to 125	-55 to 125	-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) Latching

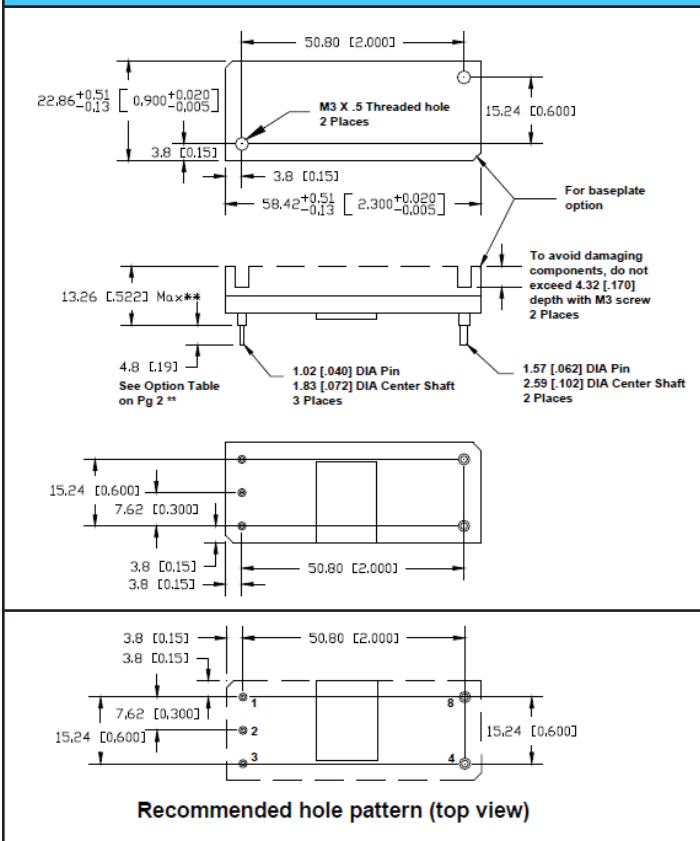
(3) Non-Latching

Model Selector

Model	Input Voltage (V)	Output Voltage (V)	Drop Share	Max. Curr. (A)	Max. Output Power (W)	Base Plate	Efficiency at Full Load (%)	Pin Length (in)
iEH4N033A096V-1D9-R	45-55	9.6	Yes	33	317	Yes	95.5	0.19
iEH4N030A102V-1D9-R	38-55	10.2	Yes	30	306	Yes	94	0.19
iEH48028A108V-109-R	36-75	10.8	No	28	302	Yes	94	0.19
iEH48025A120V-109-R	36-75	12	No	25	300	Yes	94.6	0.19

Preferred model

Outline Drawing



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

