



- Standard Eighth Brick Footprint
- 36-75VDC Input
- 1.2V 25A - 12V 6.5A Nominal Output
- Through Hole Mounting
- Low 8.8mm Profile
- 1500VDC Basic Isolation

iEA Series

30 -78W

Eighth Brick DC-DC Converters

iEA Features and Benefits

Features

- High operating efficiency (up to 91%)
- Constant switching frequency
- Open frame design

Benefits

- Reduced system heating
- Easier system filtering
- Better thermal performance

Specifications

MODEL		iEA480						
ITEMS		1.2	1.5	1.8	2.5	3.3	5	12
Nominal Output Voltage	VDC	1.2	1.5	1.8	2.5	3.3	5	12
Input Voltage Range	VDC	36-75						
Input Current (max)	A	4						
Output Voltage Tolerance	VDC	1.16 - 1.24	1.45 - 1.55	1.74 - 1.86	2.42 - 2.58	3.20 - 3.40	4.85 - 5.15	11.58 - 12.42
Ripple & Noise (max) (pk to pk) (1)	mV	100					125	200
Line Regulation (max)	mV	5			7	10	24	
Load Regulation (max)	mV	7			8	10	24	
Overload Protection (typ)	A	35		31	29	20	8.5	
Overvoltage Protection	%	122-146% Vo, nom typical						
Remote Sense	-	Yes						
Remote On / Off	-	Positive or Negative Logic, see Feature Set						
Temperature (operating)	°C	-40 to 125						
Temperature (storage)	°C	-55 to 125						
Humidity (operating)	-	20-95% RH Non condensing						
Humidity (storage)	-	10-95% RH Non condensing						
Cooling	-	Convection or forced air						
Isolation Voltage	VDC	1500						
Vibration (non operating)	-	5 to 50Hz @ 0.5g (4.9m/s ²), and 50 to 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), VDE0805 (IEC60950), CB scheme (IEC60950), CE Mark (LVD)						
Weight (max)	g	30.4						
Size	mm	58.4 x 22.9 x 8.8						
Warranty	-	3 Years						

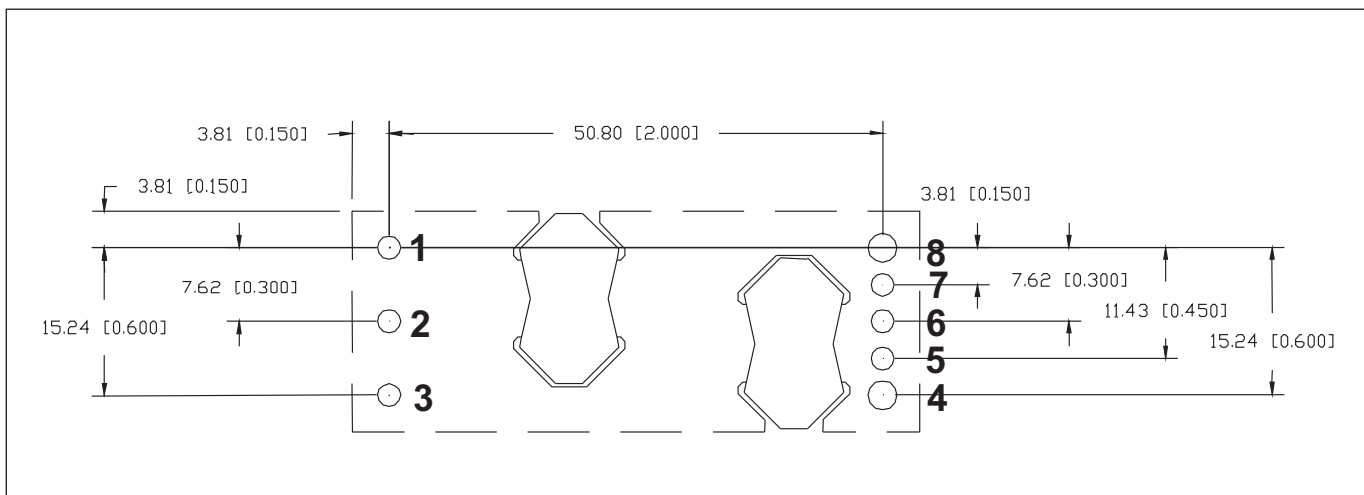
Notes: (1) Measured across one 0.1uF ceramic capacitor and one 10uF tantalum ceramic capacitor; BW = 20MHz



Model Selector

Model	Voltage (V)	Adjust Range (V)	Max. Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)
iEA48025A012V-001-R	1.2	1.08 to 1.32	25	30	78
iEA48025A015V-001-R	1.5	1.35 to 1.65	25	37.5	81
iEA48025A018V-001-R	1.8	1.62 to 1.98	25	45	83
iEA48025A025V-001-R	2.5	2.25 to 2.75	25	62.5	86
iEA4 8020A033V-001-R	3.3	2.97 to 3.63	20	66	90
iEA48015A050V-001-R	5	4.5 to 5.5	15	75	90
iEA48007A120V-001-R	12	10.8 to 13.2	6.5	78	91

Recommended Hole Pattern



Feature Set

Feature Set	Pos. Logic On / Off	Neg. Logic On / Off	0.110" Pin Len.	0.200 Pin Len.	0.145" Pin Len.	Latching OVP
00	X				X	
01*		X			X	
02	X		X			
03		X	X			

* Preferred feature set Model Number Example: iEA48020A033V-001-R

Pinout

Pin#	Function
1	Vin (+)
2	On / Off
3	Vin (-)
4	Vout (-)
5	Sense (-)
6	Trim
7	Sense (+)
8	Vout (+)

For full data and drawings please visit www.emea.tdk-lambda.com/www/iea



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