

- Standard Eighth Brick Footprint
- 24 or 48VDC Input
- 5V 15A - 28V 2.67A Nominal Output
- Through Hole Mounting
- Low 8.8mm Profile
- 1500VDC Basic Isolation

## iEA Series

67-78W

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		iEA Series				
MODEL		5	12	15	18	28
ITEMS						
Nominal Output Voltage	VDC	5	12	15	18	28
Input Voltage Range	VDC	18 - 60 or 36 - 75 (see model selector)				
Input Current (max)	A	4.5				
Output Voltage Tolerance	VDC	4.85 - 5.15	11.58 - 12.42	14.47 - 15.52	17.28 - 18.72	26.88 - 29.12
Ripple & Noise (max) (pk-pk) (1)	mV	125	200	150	200	250
Line Regulation (max)	mV	10	24	35	45	70
Load Regulation (max)	mV	10	24	35	45	70
Overload Protection (typ)	A	20	8.5	6	4.4	4
Overvoltage Protection	VDC	5.7 - 6.7	13.6 - 15.7	16.8 - 22.0	20.0 - 26.0	32.0 - 38.0
Remote Sense	-	Yes				
Remote On / Off	-	Positive or Negative Logic, see Model Selector				
Temperature (operating)	°C	-40°C to +125°C				
Temperature (storage)	°C	-55°C to +125°C				
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)	-	5~50Hz@0.5g (4.9m/s <sup>2</sup> ), & 50~500Hz@1.5g (14.7m/s <sup>2</sup> ) per Bellcore TR-EOP-000063-5.4.4				
Shock	-	196.1m/s <sup>2</sup>				
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	yrs	3				

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

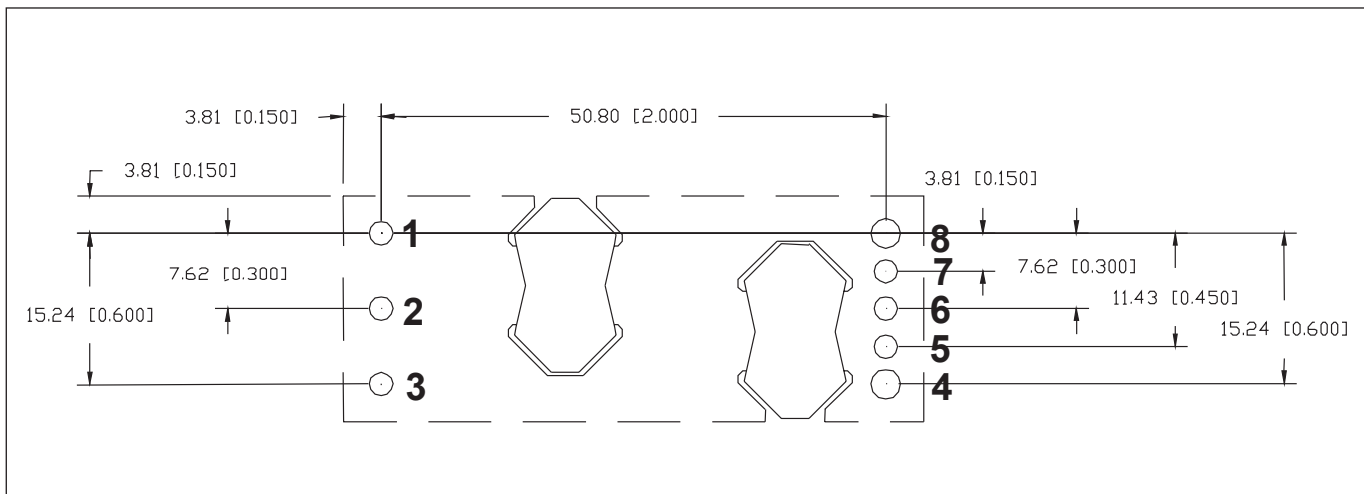
Model Selector

Model	Voltage Output (V)	Voltage Adjust (V)	Output Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Pos. Logic On/Off	Neg. Logic On/Off
iEA48015A050V-000-R	5	4.5 - 5.5	15	75	90	X	
iEA48015A050V-001-R	5	4.5 - 5.5	15	75	90		X
iEA4W004A120V-003-R <sup>(2)</sup>	12	-	4	48	91		X
iEA48007A120V-000-R	12	10.8 - 13.2	7	78	91	X	
iEA48007A120V-001-R	12	10.8 - 13.2	7	78	91		X
iEA48007A120V-005-R <sup>(3)</sup>	12	10.8 - 13.2	6.5	78	91		X
iEA48005A150V-001-R	15	13.5 - 16.5	4.5	67.5	90		X
iEA48004A180V-001-R	18	16.2 - 19.8	3.75	67.5	90.5		X
iEA48003A280V-001-R	28	19.6 - 30.8	2.67	75	90		X

Note: (2) 0.11" pin length, input voltage 18 - 60V, (3) 0.2" pin length

Preferred

Recommended Footprint (Top view)



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



**TDK-Lambda France SAS**

ZAC des Delaches  
 CS 41077  
 9 rue Thuillere  
 91978 Villebon Courtaboef  
 France  
 Tel: +33 1 60 12 71 65  
 Fax: +33 1 60 12 71 66  
[france@fr.tdk-lambda.com](mailto:france@fr.tdk-lambda.com)  
[www.fr.tdk-lambda.com](http://www.fr.tdk-lambda.com)



**Italy Sales Office**

Via dei Lavoratori 128/130  
 20092 Cinisello Balsamo (MI)  
 Italy  
 Tel: +39 02 61 29 38 63  
 Fax: +39 02 61 29 09 00  
[info.italia@it.tdk-lambda.com](mailto:info.italia@it.tdk-lambda.com)  
[www.it.tdk-lambda.com](http://www.it.tdk-lambda.com)



**Netherlands**

[info@tdk-lambda.nl](mailto:info@tdk-lambda.nl)  
[www.tdk-lambda.nl](http://www.tdk-lambda.nl)



**TDK-Lambda Germany GmbH**

Karl-Bold-Strasse 40  
 77855 Achern  
 Germany  
 Tel: +49 7841 666 0  
 Fax: +49 7841 5000  
[info.germany@de.tdk-lambda.com](mailto:info.germany@de.tdk-lambda.com)  
[www.de.tdk-lambda.com](http://www.de.tdk-lambda.com)



**Austria Sales Office**

Aredstrasse 22  
 2544 Leobersdorf  
 Austria  
 Tel: +43 2256 655 84  
 Fax: +43 2256 645 12  
[info.germany@de.tdk-lambda.com](mailto:info.germany@de.tdk-lambda.com)  
[www.de.tdk-lambda.com](http://www.de.tdk-lambda.com)



**Switzerland Sales Office**

Bahnhofstrasse 50  
 8305 Dietlikon  
 Switzerland  
 Tel: +41 44 850 53 53  
 Fax: +41 44 850 53 50  
[info@de.tdk-lambda.com](mailto:info@de.tdk-lambda.com)  
[www.de.tdk-lambda.com](http://www.de.tdk-lambda.com)



**TDK-Lambda UK Ltd.**

Kingsley Avenue  
 Ilfracombe  
 Devon EX34 8ES  
 United Kingdom  
 Tel: +44 (0) 12 71 85 66 66  
 Fax: +44 (0) 12 71 86 48 94  
[powersolutions@uk.tdk-lambda.com](mailto:powersolutions@uk.tdk-lambda.com)  
[www.uk.tdk-lambda.com](http://www.uk.tdk-lambda.com)



**TDK-Lambda Ltd.**

Kibbutz  
 Givat Hashlosha 48800  
 Israel  
 Tel: +9 723 902 4333  
 Fax: +9 723 902 4777  
[info@tdk-lambda.co.il](mailto:info@tdk-lambda.co.il)  
[www.tdk-lambda.co.il](http://www.tdk-lambda.co.il)



**C.I.S.**

**Commercial Support:**  
 Tel: +7 (495) 665 2627  
**Technical Support:**  
 Tel: +7 (812) 658 0463  
[info@tdk-lambda.ru](mailto:info@tdk-lambda.ru)  
[www.tdk-lambda.ru](http://www.tdk-lambda.ru)

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