

- Standard Quarter Brick Footprint
- 18-36, 36-75VDC Inputs
- 3.3 to 12V Nominal Outputs
- Through Hole Mounting
- Low 8.81mm Profile
- 1500VDC Basic Isolation

iQB Series

33 - 150W

Quarter Brick Converter

iQB Features and Benefits

Features

- High operating efficiency (up to 92%)
- Constant switching frequency
- Low component count

Benefits

- Reduced system heating
- Easier system filtering
- Higher reliability

Specifications		iQB		
MODEL				
ITEMS		3.3	5	12
Nominal Output Voltage	VDC	3.3	5	12
Input Voltage Range	VDC	18-36, 36-75	36-75	
Output Voltage Tolerance	VDC	3.20 - 3.40	4.85 - 5.15	11.58 - 12.42
Ripple & Noise (max) (pk to pk) (1)	mV	100	125	250
Line Regulation (max)	mV	5	10	24
Load Regulation (max)	mV	7	10	24
Overload Protection (typ)	%	Inception- 120-153% of output rating; Short circuit auto recovery		
Overvoltage Protection	VDC	3.75 to 4.4	5.7 to 6.7	13.6 to 16
Remote Sense	-	Yes		
Remote On / Off	-	Positive or Negative Logic available, see Feature Set		
Temperature (operating)	°C	-40°C to 120°C (115°C for 24V input model)		-40°C to 115°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 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	39		
Size	mm	57.9 x 36.8 x 8.81 (10.11 for 12V 8.3A model)		
Warranty	-	3 Years		

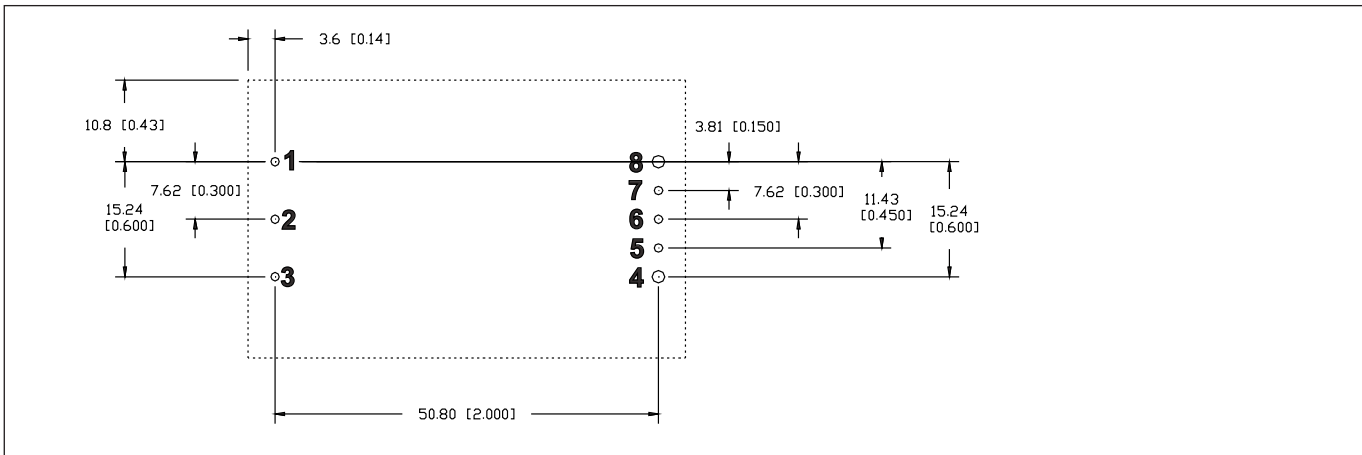
Notes: (1) Measured across one 1uF ceramic capacitor and one 10uF tantalum capacitor; BW = 20MHz

Model Selector								
Model	Output Voltage (V)	Output Curr (A)	Max.Output Power (W)	Efficiency at Full Load (%)	Pos.Logic On/Off	Neg. Logic On/Off	OVP Latching	Pin Length
iQB48010A033V-005-R	3.3	10	33	90	-	X	-	0.200
iQB48010A033V-011-R	3.3	10	33	90	-	X	X	0.145
iQB24015A033V-000-R*	3.3	15	49.5	89	X	-	-	0.145
iQB48020A033V-011-R	3.3	20	66	89	-	X	X	0.145
iQB48025A033V-001-R	3.3	25	82.5	88	-	X	-	0.145
iQB48015A050V-005-R	5	15	75	90	-	X	-	0.200
iQB48015A050V-011-R	5	15	75	90	-	X	X	0.145
iQB48008A120V-000-R	12	8	96	90	X	-	-	0.145
iQB48008A120V-001-R	12	8	96	90	-	X	-	0.145
iQB48012A120V-001-R	12	12.5	150	92	-	X	-	0.145

Preferred

NB other configurations on request

Recommended Footprint (Top View) iQB Series



PIN Out			
PIN	Function	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 Courtaboeuf
 France
 Tel: +33 1 60 12 71 65
 Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
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
www.it.tdk-lambda.com



Netherlands

info@tdk-lambda.nl
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
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
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
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
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
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
www.tdk-lambda.ru

Local Distribution

