

- Standard Quarter Brick Footprint
- 36-75VDC & Wide Range 18-60V Inputs
- 5V 30A - 15V 10A Nominal Outputs
- Through Hole Mounting
- Low 10.41mm Profile
- 1500VDC Basic Isolation

iQE Series

108 - 204W

Quarter Brick Converter

iQE Features and Benefits

Features

- High operating efficiency (>90%)
- Constant switching frequency
- Low component count

Benefits

- Reduced system heating
- Easier system filtering
- Higher reliability

Specifications		iQE Series			
ITEMS	MODEL	3.3*	5	12	15
Nominal Output Voltage	VDC	3.3*	5	12	15
Input Voltage Range	VDC	See model Selector			
Input Current (max)	A	10			
Output Voltage Tolerance	VDC	3.2 - 3.4	4.85 - 5.15	11.58 - 12.42	14.48 - 15.52
Ripple & Noise (max) (pk to pk) (1)	mV	150	150	150	150
Line Regulation (max)	mV	10	15	30	30
Load Regulation (max)	mV	10	30	30	30
Overload Protection (typ)	%	Inception - 133-158% of rated output; Short circuit - auto recovery			
Overvoltage Protection	VDC	3.8 - 4.6	5.7 - 6.7	13.6 - 16.5	16.7 - 21
Remote Sense	-	Yes			
Remote On / Off	-	Positive or Negative Logic available, 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 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	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark			
Weight (max)	g	50			
Size	mm	57.9 x 36.8 x 10.41			
Warranty	yrs	3			

Notes: (1) Measured across one 22µF and one 0.1µF ceramic capacitor; BW = 20MHz * Last time buy Sept 2017

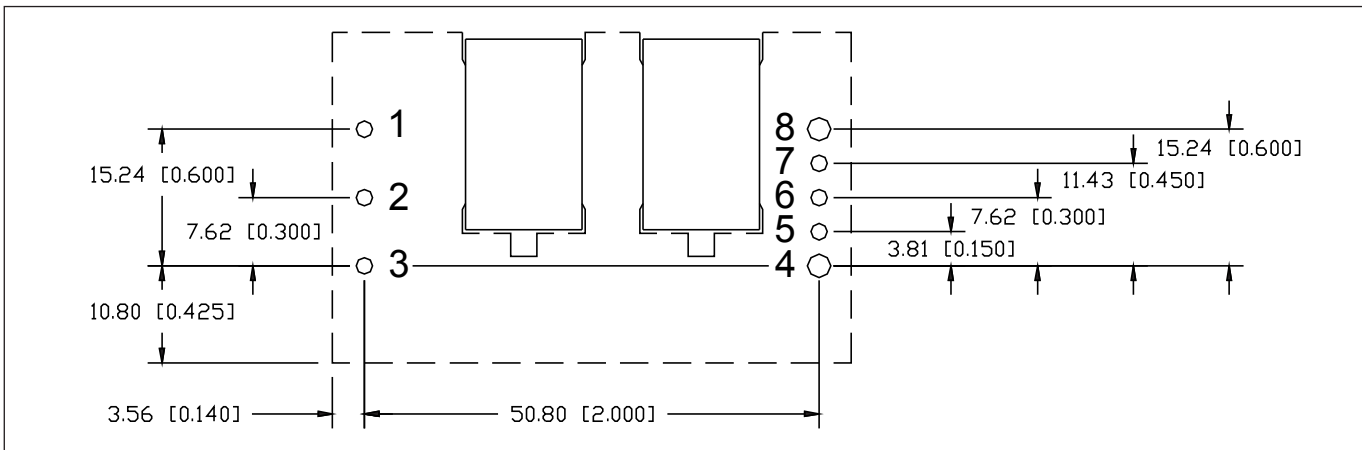
Model Selector						
Model	Input Voltage (V)	Output Voltage (V)	Adjust Range (V)	Max. Current (A)	Max. Output Power (W)	Efficiency
IQE24009A120V-001-R*	18-36	12	10.8-13.2	9	108	88
IQE24024A050V-001-R*	18-36	5	4.5-5.5	24	120	90
IQE24030A033V-001-R*	18-36	3.3	2.97-3.63	30	99	90
IQE48010A150V-007-R	36-75	15	13.5-16.5	10	150	91
IQE48017A120V-001-R	36-75	12	10.8-13.2	17	204	93
IQE48030A050V-001-R	36-75	5	4.5-5.5	30	150	91
IQE4W011A120V-001-R	18-60	12	10.8-13.2	11	132	90

Preferred NB: other configurations on request * Last time buy Sept 2017

Feature Set					
Feature Set	Positive Logic On / Off	Negative Logic On / Off	0.110" Pin Len.	0.180" Pin Len.	0.145" Pin Len.
01		X			X
07		X		X	

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

Recommended Hole Pattern (Top View)





TDK-Lambda France SAS

3 Avenue du Canada
 Parc Technopolis
 Bâtiment Sigma
 91940 les Ulis
 France
 Tel: +33 1 60 12 71 65
 Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.emea.lambda.tdk.com/fr



Italy Sales Office

Via Giacomo Matteotti 62
 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.emea.lambda.tdk.com/it



Netherlands

info@nl.tdk-lambda.com
www.emea.lambda.tdk.com/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.emea.lambda.tdk.com/de



Austria Sales Office

Aredstrasse 22
 2544 Leobersdorf
 Austria
 Tel: +43 2256 655 84
 Fax: +43 2256 645 12
info@at.tdk-lambda.com
www.emea.lambda.tdk.com/at



Switzerland Sales Office

Eichtalstrasse 55
 8634 Hombrechtikon
 Switzerland
 Tel: +41 44 850 53 53
 Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.emea.lambda.tdk.com/ch



Nordic Sales Office

Haderslevvej 36B
 DK-6000 Kolding
 Denmark
 Tel: +45 8853 8086
info@dk.tdk-lambda.com
www.emea.lambda.tdk.com/dk



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
info@uk.tdk-lambda.com
www.emea.lambda.tdk.com/uk



TDK-Lambda Ltd.

1 Alexander Yanai
 Segula
 Petah-Tikva
 Israel
 Tel: +9 723 902 4333
 Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.emea.lambda.tdk.com/il



C.I.S.

Commercial Support:
 Tel: +7 (495) 665 2627
Technical Support:
 Tel: +7 (812) 658 0463
info@tdk-lambda.ru
www.emea.lambda.tdk.com/ru

Local Distribution

Ihr Vertriebspartner:



HY-LINE Power Components
 Vertriebs GmbH
 Inselkammerstr. 10
 D-82008 Unterhaching
 ☎ +49 89/ 614 503 -10
power@hy-line.de

HY-LINE AG
 Hochstrasse 355
 CH-8200 Schaffhausen
 ☎ +41 52 647 42 00
info@hy-line.ch