

## 72-308W Quarter Brick Converter

### Features

- ◆ Standard Quarter Brick Footprint
- ◆ 18-36, 36-75VDC Inputs
- ◆ 2.5V 60A, 28V 11A Nominal Outputs
- ◆ Through Hole Mounting
- ◆ 1500VDC Basic Isolation
- ◆ Baseplate cooling
- ◆ High operating efficiency (up to 93.5%)
- ◆ Constant switching frequency



### Key Market Segments & Applications



Specifications							
Model	IQL						
	VDC	2.5	3.3	5	8.3	12	28
Nominal Output Voltage	VDC	2.5	3.3	5	8.3	12	28
Input Voltage Range	VDC	See Model Selector					
Ripple & Noise (max)(pk-pk) (1)	mV	30	100	80	100	120	500
Line Regulation (max)	mV	5	6.6	10	30	60	100
Load Regulation (max)	mV	5	15	10	40	60	100
Overload Protection Threshold (3)	A	69	70	50	34	27.5	12.4
Overvoltage Protection (Typ) (2)	VDC	3.1	4.1	6.1	10	14.7	33.6
Overtemperature Protection (3)	-	Yes					
Remote Sense	-	Yes	Yes	Yes	No	No <sup>(4)</sup>	No
Remote On / Off	-	Negative Logic					
Temperature (operating)	°C	-40 to 115	-40 to 115	-40 to 125	-40 to 119	-40 to 118	-40 to 115
Temperature (storage)	°C	-55 to 125					
Humidity (operating)	-	20 to 95% (non-condensing)					
Humidity (storage)	-	10 to 95% (non-condensing)					
Cooling	-	Conduction, convection, or forced air					
Isolation Voltage	VDC	1500 Input - Output, 1500 Input - Baseplate					
Vibration (non operating)	-	5 to 50Hz@0.5g (4.9m/s <sup>2</sup> ), and 50 to 500Hz@1.5g (14.7m/s <sup>2</sup> ) per Bellcore TR-EOP-000063-5.4.4					
Shock	-	50 G at 6 ms pulse in three axes					
Safety Agency Approvals	-	UL60950 (US and Canada), VDE0805, CB scheme (IEC950), CE Mark (EN60950)					
Weight (max)	g	55g open frame, 70g with base plate					
Size	mm	57.9 x 36.8 x 13.21					
Warranty	yrs	3 Years					

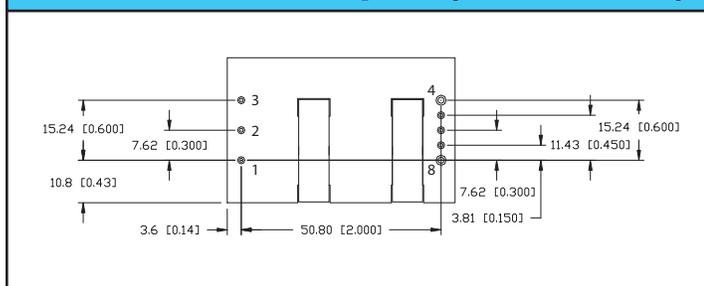
- (1) See website for detailed specification and test methods.  
 (2) Latching  
 (3) Non-latching  
 (4) iQL24021A120V has remote sense

## Model Selector

Model	Input Voltage (V)	Output Voltage (V)	Adjust Range (V)	Max. Curr. (A)	Max. Output Power (W)	Base Plate	Efficiency at Full Load (%)	Pin Length (in)
iQL48060A025V-0B9-R	36 - 75	2.5	2.0 - 2.75	60	150.0	No	89.0	0.180
iQL24050A033V-009-R	18 - 36	3.3	2.64 - 3.63	50	165.0	Yes	90.5	0.180
iQL48025A033V-003-R	36 - 75	3.3	2.64 - 3.63	25	82.5	Yes	91.0	0.180
iQL48060A033V-009-R	36 - 75	3.3	2.64 - 3.63	60	198.0	Yes	91.0	0.180
iQL48060A033V-0B9-R	36 - 75	3.3	2.64 - 3.63	60	198.0	No	91.0	0.180
iQL24040A050V-009-R	18 - 36	5.0	4.0 - 5.5	40	200.0	Yes	91.0	0.180
iQL48045A050V-009-R	36 - 75	5.0	4.0 - 5.5	45	225.0	Yes	91.0	0.180
iQL48045A050V-0B9-R	36 - 75	5.0	4.0 - 5.5	45	225.0	No	91.0	0.180
iQL24024A083V-009-R	18 - 36	8.3	6.64 - 9.13	24	199.2	Yes	89.0	0.180
iQL48030A083V-009-R	36 - 75	8.3	6.64 - 9.13	30	249.0	Yes	90.5	0.180
iQL24021A120V-009-R	20 - 36	12.0	9.28 - 12.76	21	252.0	Yes	92.0	0.180
iQL48025A120V-009-R	36 - 75	12.0	9.6 - 13.2	25	300.0	Yes	93.5	0.180
iQL48025A120V-0B9-R	36 - 75	12.0	9.6 - 13.2	25	300.0	No	93.5	0.180
iQL48011A280V-009-R	36 - 75	28.0	27.4 - 28.6	11	308.0	Yes	92.5	0.180

### Preferred Model

## Recommended Footprint (Bottom View)



## Pinout

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

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/iql-series.htm](http://us.tdk-lambda.com/lp/products/iql-series.htm)



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