

- 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 <sup>2</sup> ), and 50 to 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	-	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

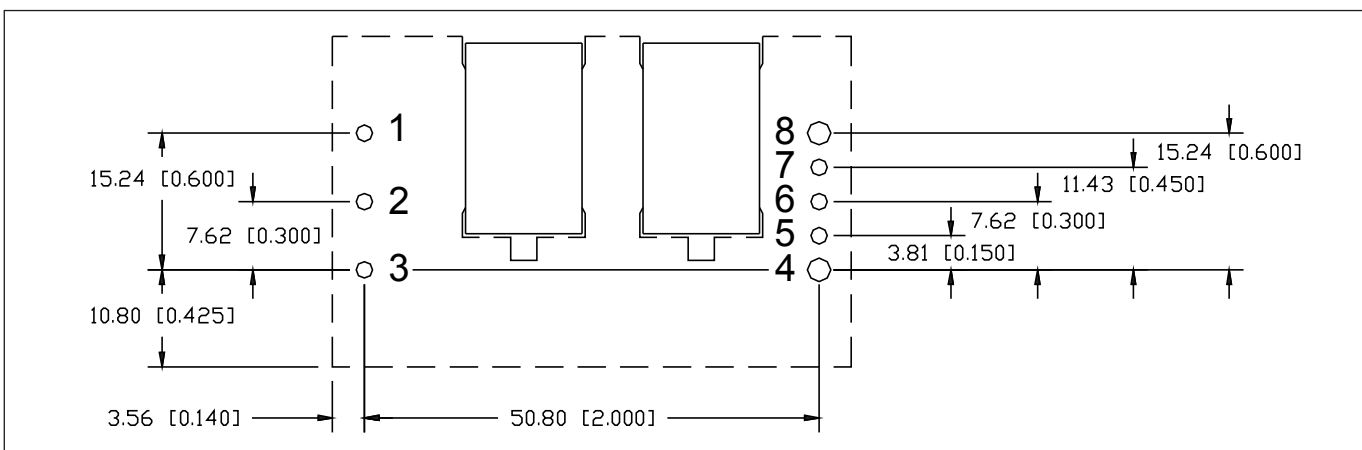
Model Selector						
Model	Input Voltage (V)	Output Voltage (V)	Adjust Range (V)	Max. Current (A)	Max. Output Power (W)	Efficiency
IQE24009A120V-001-R*	18-36	12	10.8-13.2	9	108	88
IQE24024A050V-001-R*	18-36	5	4.5-5.5	24	120	90
IQE24030A033V-001-R*	18-36	3.3	2.97-3.63	30	99	90
IQE48010A150V-007-R	36-75	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)**





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