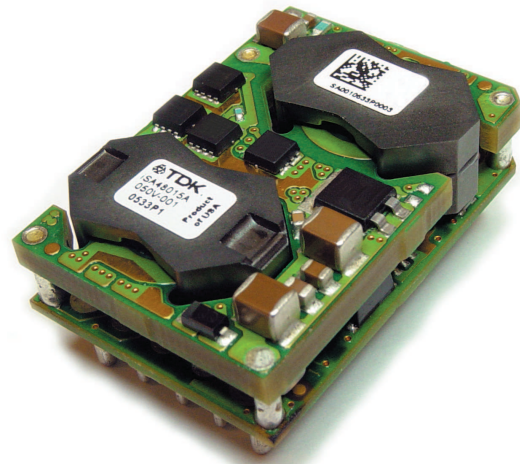


75 - 84W Sixteenth Brick Converter

Features

- ◆ Standard Sixteenth Brick Footprint (DOSA)
- ◆ 36 - 75VDC Input
- ◆ 3.3V 25A - 12V 6.5A Nominal Outputs
- ◆ Through Hole Mounting
- ◆ Low 12.7mm Profile
- ◆ 1500VDC Basic Isolation
- ◆ High operating efficiency (up to 90%)
- ◆ Constant switching frequency
- ◆ 44% smaller than eighth bricks



Key Market Segments & Applications



Specifications

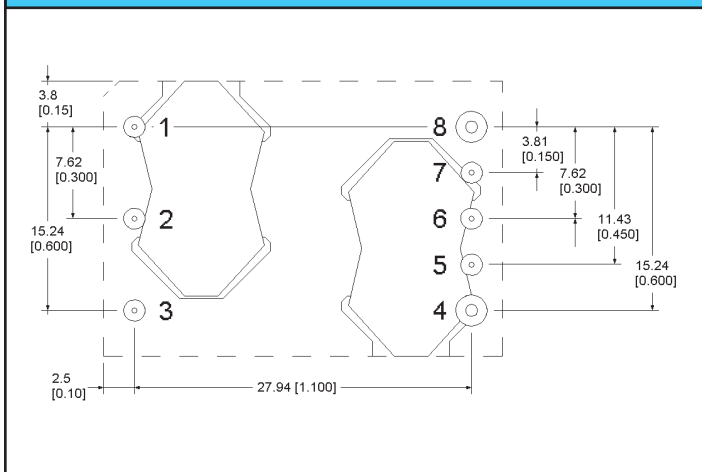
Model		iSA480			
Nominal Output Voltage	VDC	3.3	5	12	
Input Voltage Range	VDC	36 to 75			
Input Current (max)	A	4			
Output Voltage Tolerance	VDC	3.20-3.40	4.85-5.15	11.58-12.42	
Ripple & Noise (max)(pk to pk)	mV	100		200	
Line Regulation (max)	mV	7	10	24	
Load Regulation (max)	mV	8	10	24	
Overload Protection	%	Inception- 130-147% of rated output; Short circuit auto recovery			
Overvoltage Protection	VDC	3.75-4.65	5.7-6.7	13.6-15.7	
Remote Sense	-	Yes			
Remote On / Off	-	Negative Logic			
Temperature (operating)	°C	-40 to 125			
Temperature (storage)	°C	-55 to 125			
Humidity (operating)	-	20-95% RH Non condensing			
Humidity (storage)	-	10-95% RH Non condensing			
Cooling	-	Convection or forced air			
I/O 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	30.4			
Size	mm	33 x 22.9 x 12.7			
Warranty	-	3 Years			

Notes: See website for detailed specifications

Model Selector

Model	Output Voltage (V)	Output Adjust (V)	Output Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Neg. Logic On/Off	0.145 Pin Length
iSA48025A033V-001-R	3.3	2.97 to 3.63	25	82.5	88	X	X
iSA48015A050V-001-R	5	4.5 to 5.5	15	75	90	X	X
iSA48007A120V-001-R	12	10.8 to 13.2	6.5	78	90	X	X

Recommended Footprint (Top View)



Pinout

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

For Additional Information, please visit
us.tdk-lambda.com/lp/products/isa-series.htm



Other DC-DC Products

CC-E	1.5-12W, 1 to 2 Outputs, 5 to 48VDC Input
PX	10-40W, 1 to 3 Outputs, 12 to 48VDC Input
iEA	30-78W, 1.2-28V Output, 36-75VDC Input, Eighth Brick DC-DC
PAE50/100	36-100W, 1.9-5V Output, 36-75VDC Input, Eighth Brick DC-DC
iQB	30-300W, 1.2-12V Output, 24 to 48VDC Input, Quarter Brick DC-DC
PAH300/450	300-450W, 12 to 28V Output, 36-75VDC Input, Half Brick DC-DC
PAF	400-700W, 1.8 to 48V output, 24 to 400VDC Input, Full Brick DC-DC
FPS, HFE	1kW to 2.5kW, 12 to 48V Output, AC-DC Front Ends
iAA, iAD, iBC	Non Isolated DC-DC Converters
iAF, iBF, iCF, iCG	DOSA2 Non-Isolated DC-DC Converters

Mouser Electronics

Authorized Distributor

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