



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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36-83W Sixteenth Brick Converter

Features

- ◆ Standard Sixteenth Brick Footprint (DOSA)
- ◆ 36 - 75VDC Input
- ◆ 1.2V 30A - 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	1.2	1.5	1.8	3.3	5	12
Input Voltage Range	VDC	36 - 75					
Input Current (max)	A	4					
Output Voltage Tolerance	VDC	1.164-1.236	1.45-1.55	1.74-1.86	3.20-3.40	4.85-5.15	11.58-12.42
Ripple & Noise (max) (pk - pk)	mV	75mV		100mV		200mV	
Line Regulation (typical)	mV	2		7		10	
Load Regulation (typical)	mV	3		8		10	
Overload Protection (typ)	A	39		40	32	22	9.5
Overvoltage Protection	VDC	1.5 - 2.0V	1.7 - 2.3	2.1 - 2.6	3.75-4.65	5.7-6.7	13.6-15.7
Remote Sense	-	Yes					
Remote On / Off	-	Yes					
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					
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	g	30.4					
Size	mm	33 x 22.9 x 12.7					
Warranty	-	3 Years					

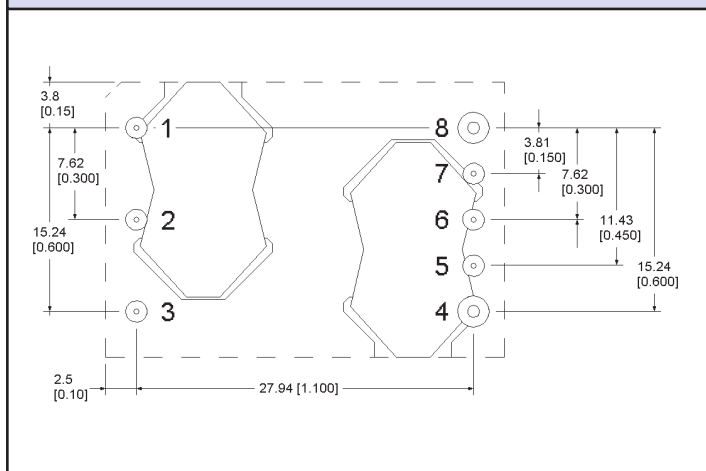
Notes: See website for detailed specifications

Model Selector

Model	Output Voltage (V)	Output Adjust (V)	Output Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Pos. Logic On/Off	Neg. Logic On/Off	Pin Length
iSA48030A012V-000-R	1.2	1.08 - 1.32	30	36	75	X	-	0.145
iSA48030A012V-001-R	1.2	1.08 - 1.32	30	36	75	-	X	0.145
iSA48030A015V-001-R	1.5	1.35 - 1.65	30	45	79	-	X	0.145
iSA48030A018V-001-R	1.8	1.62 - 1.98	30	54	82	-	X	0.145
iSA48025A025V-001-R	2.5	2.25 - 2.75	25	62.5	85	-	X	0.145
iSA48025A033V-000-R	3.3	2.97 - 3.63	25	82.5	88	X	-	0.145
iSA48025A033V-001-R	3.3	2.97 - 3.63	25	82.5	88	-	X	0.145
iSA48015A050V-001-R	5	4.5 - 5.5	15	75	90	-	X	0.145
iSA48007A120V-001-R	12	10.8 - 13.2	6.5	78	90	-	X	0.145
iSA48007A120V-007-R	12	10.8 - 13.2	6.5	78	90	-	X	0.180

Preferred Model

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

Series	Isolation	Rating	Output	Input
CC-E	Isolated	1.5 - 30W	1 - 2 Outputs	5 - 48VDC
PX	Isolated	10 - 60W	1 - 3 Outputs	12 - 48VDC
iSA	Isolated	36 - 82.5W	1.2 - 12V	36 - 75VDC
iEA	Isolated	48 - 78W	5 - 28V	36 - 75VDC
iEH	Isolated	300 - 317W	9.6 - 12V	36 - 75VDC
PAE50/100	Isolated	50 - 100W	1.8 - 5V	36 - 76VDC
iQL	Isolated	72 - 308W	1.2 - 28V	18 - 75VDC
iQE	Isolated	49.4 - 204W	3.3 - 12V	18 - 75VDC
iQG	Isolated	300 - 450W	9.6 - 12V	36 - 75VDC
iHG	Isolated	300 - 456W	12V	36 - 75VDC
PAH	Isolated	30 - 450W	2.5 - 48V	18 - 76VDC
PAF	Isolated	450 - 700W	3.3 - 48V	36 - 75VDC
iJB	POL, Digital	60A	0.6 - 2.0V	8 - 14VDC
i6A	POL	250W	3.3 - 20V	9 - 40VDC
iA,iB,iC	POL	3,6,12,20A	0.6 - 5.5V	2.4 - 14VDC