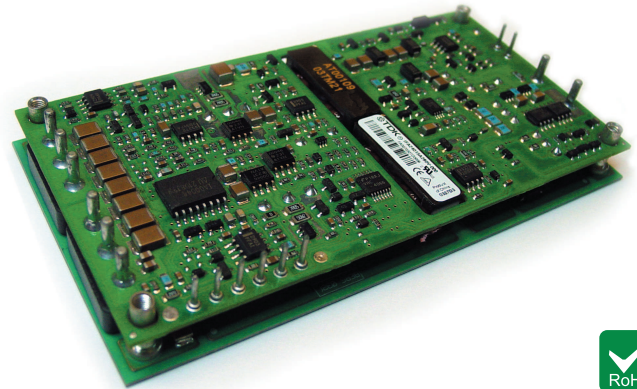


528 - 600W Full Brick Converter

Features

- ◆ Standard Full Brick Converter
- ◆ 36 - 75 VDC Inputs
- ◆ 9.6V 55A - 12V 50A Nominal Output
- ◆ Thru Hole and Threaded Mounting
- ◆ Low 12.7 mm Profile
- ◆ 1500VDC Basic Isolation
- ◆ High operating efficiency (up to 92%)
- ◆ Constant switching frequency
- ◆ Isolated remote on / off



Specifications

Model		iFA48055A096V-020-R	iFA48042A120V-020-R	iFA48050A120V-000-R
Nominal Output Voltage	VDC	9.6	12	12
Output Current (max)	A	55 (1)	42	50
Input Voltage Range	VDC	36-75		
Input Current (max)	A	16 - 26.5 Amps model dependent		
Output Voltage Tolerance	VDC	9.31 - 9.89	11.64 - 12.36	11.64 - 12.36
Ripple & Noise (max) (pk to pk)	mV	100	150	150
Line Regulation (max)	mV	20	24	10
Load Regulation (max)	mV	20	24	5
Overload Protection	%	Inception- 110-135% of rated output; Short circuit auto recovery		
Overvoltage Protection	VDC	11.8	15.2	14.8
Remote Sense	-	Yes		
Remote On / Off	-	Yes (isolated)		
Temperature (operating)	°C	-40 to 115	-40 to 115	-40 to 120
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	Input to Output and Input to Baseplate 1500VDC, Output to Baseplate 500VDC		
Vibration (non operating)	-	5 to 50Hz@0.5g (4.9m/s ²), & 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 & Canada), VDE0805 (IEC60950), CB scheme (IEC60950), CE Mark (LVD)		
Weight	g	250		
Size	mm	116.8 x 61.0 x 12.7		
Warranty	-	3 Years		

Notes:

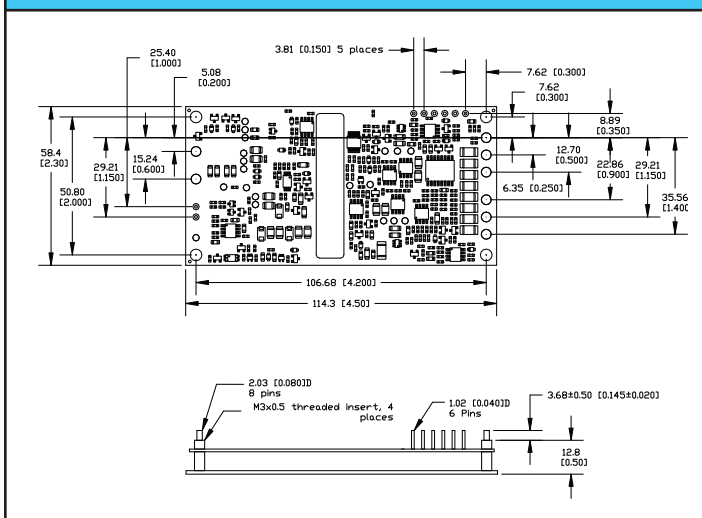
- (1) 10A min. with a load of less than 10A, the output ripple may increase; however, the unit will continue to regulate the output voltage
- (2) Not available on model iFA48055A096V-020-R

OBSOLETE

Model Selector

Model	Voltage (V)	Adjust Range (V)	Max. Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Pin Length	Pem Stud Style
iFA48055A096V-020-R	9.6	5.76 - 10.56	55	528	92	0.145	Thru-hole
iFA48042A120V-020-R	12	7.2 - 13.2	42	504	91	0.145	Thru-hole
iFA48050A120V-000-R	12	7.2 - 13.2	50	600	92	0.145	Threaded Hole

Outline Drawing



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



Feature Set

Feature Set	OVP out (Replaces Pwr Good)	Pin Length	PEM Stud Style
00	No	0.145	Threaded
20	No	0.145	Thru-hole

Model Number Example: iFA48055A096V-020-R

PIN Assignments

PIN	Function	Pin	Function
1	On / Off (+)	10	Vout (+)
2	On / Off (-)	11	Not Present
3	Vin (+)	12	Aux Output (2)
4	Vin (-)	13	Power Good (2)
5	Vout (-)	14	Parallel Control
6	Vout (-)	15	Trim
7	Vout (-)	16	Sense (+)
8	Vout (+)	17	Sense (-)
9	Vout (+)	18	no connection

Other DC-DC Products

CC-E	1.5 - 25W, 1 - 2 Outputs, 5-48VDC Input
PX	10 - 40W, 1 - 3 Outputs, 12 to 48VDC Input
iPB	15 - 35W, 1.5 - 5V Output, 36 - 75VDC Input, Pico Brick
iSA	30 - 78W, 1.2 - 12V Output, 36 - 75VDC Input, Sixteenth Brick
iEA	30 - 78W, 1.2 - 28V Output, 36 - 75VDC Input, Eighth Brick
PAE50/100	36 - 100W, 1.9 - 5V Output, 36 - 75VDC Input, Eighth Brick
IEB	150W, 12V Output, 42 - 56VDC Input, Eighth Brick Intermediate Bus
iQD	300W, 12V Output, 42 - 53VDC Input, Quarter Brick Intermediate Bus
iQL	72 - 300W, 1.2 - 28V Output, 24 - 48VDC Input, Quarter Brick
PAH300/350	300 - 450W, 12 - 48V Output, 18 - 76VDC Input, Half Brick
PAF	400 - 700W, 1.8 - 48V Output, 24 - 400VDC Input, Full Brick
iAA, iBC, iAC, iAD, iBA	Non Isolated
FPS	1kW - 3kW, 12 - 48VDC Output, AC-DC Front Ends
PFE	300 - 1000W, 12 - 48VDC Output, AC - DC Front End Brick

OBSOLETE