

- Standard Industry Footprint (DOSA)
- 3.0-5.5V and 6.0-14.0V Input
- 0.8-5.0V Nominal Outputs
- Surface Mount
- Low 8.5mm Profile
- Non Isolated Output

iAA/iAC Series

15 to 16A

Point of Load Converter

iAA / iAC Features and Benefits

Features

- High operating efficiency (up to 95%)
- Constant switching frequency
- Starts with pre-biased output

Benefits

- Reduced system heating
- Easier system filtering
- Supports complex digital systems

Specifications

MODEL		iAA05015A008V	iAC12016A008V
ITEMS			
Nominal Output Voltage	VDC	0.75-3.63	0.8 - 5.0
Input Voltage Range	VDC	3.0-5.5 ⁽²⁾	6.0 ⁽¹⁾ - 14
Input Current (max)	A	16	18
Output Voltage Tolerance	VDC	±3.3% Vo, set	-2.5 to +3.5% Vo, set
Ripple & Noise (max) (pk to pk) (3)	mV	75	100
Line Regulation (max)	mV	5	10
Load Regulation (max)	mV	10	15
Overload Protection	%	Inception - 175-235% of rated output; Short circuit - auto recovery	
Overvoltage Protection	-	N/A	
Remote Sense	-	Yes	
Remote On / Off	-	Positive or Negative Logic available, see Feature Set	
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)	-	Per IPC / JEDEC J-STD-020, for MSL-2 (<30C/60%RH) in original packaging	
Cooling	-	Convection or forced air	
Isolation Voltage	-	N/A	
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)	
Weight (max)	g	12	
Size	mm	33 x 13.5 x 8.5	
Warranty	yrs	3	

Notes:

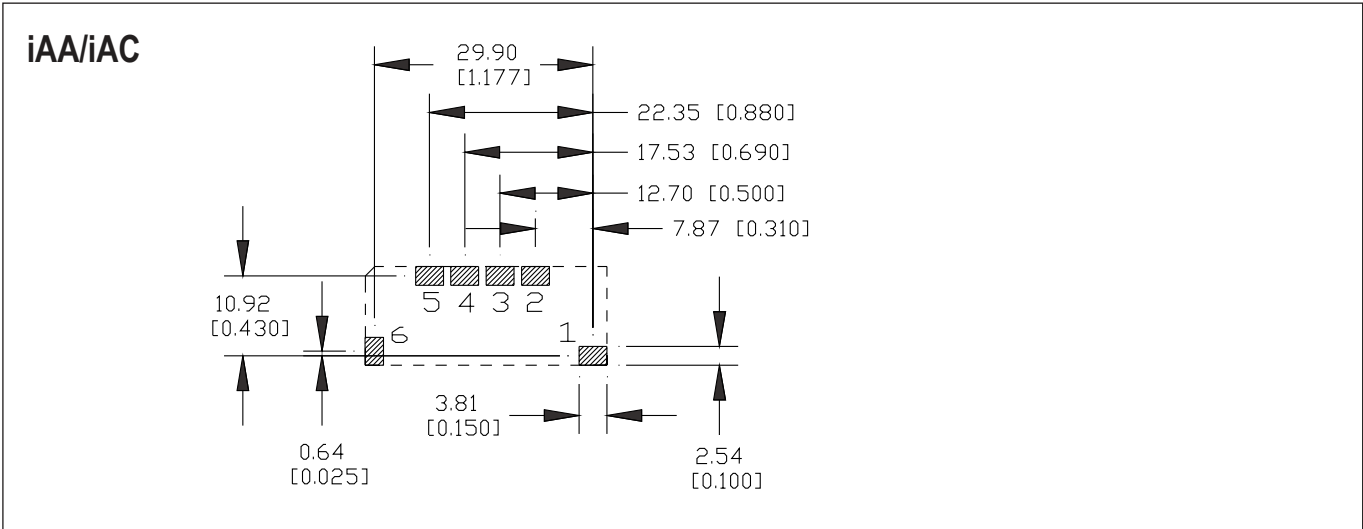
- (1) 8.3 - 14V when output is >3.63V
- (2) 4.5 - 5.5V when output is >3.0V
- (3) Measured across one 0.1µF ceramic capacitor and one 47µF ceramic capacitor; BW = 20MHz

Model Selector						
Model	Output Voltage (V)	On/Off Logic Positive	On/Off Logic Negative	Output Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)
iAA05015A008V-000-R	0.75 - 3.63	✓		15	49.5	94.5
iAC12016A008V-002-R	0.8 - 5.0	✓		16	80	94
iAC12016A008V-003-R	0.8 - 5.0		✓	16	80	94

NB other configurations on request

Pinout		
PIN	iAA	iAC
1	Vin	On/Off
2	Gnd	Vin
3	Vout	Gnd
4	Trim	Vout
5	Sense	Trim
6	On/Off	Sense
7	-	-

Recommended Footprint (Top View) iAA/iAC (no sequence) Series



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