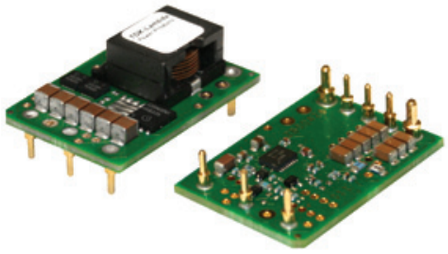
Industrial Test Comm Broadcast

250W, 9-40V Input Non-isolated DC-DC Converter

Features	Benefits
• 250W 14A in a 1/16th brick package	• Very High Power Density
• Very high Efficiency up to 98%	• Easier Thermal Management
• Wide Output Adjustment 3.3 to 24V	• Address Multiple Applications
• Minimal External Components Needed	• Less Board Area Required



Specification

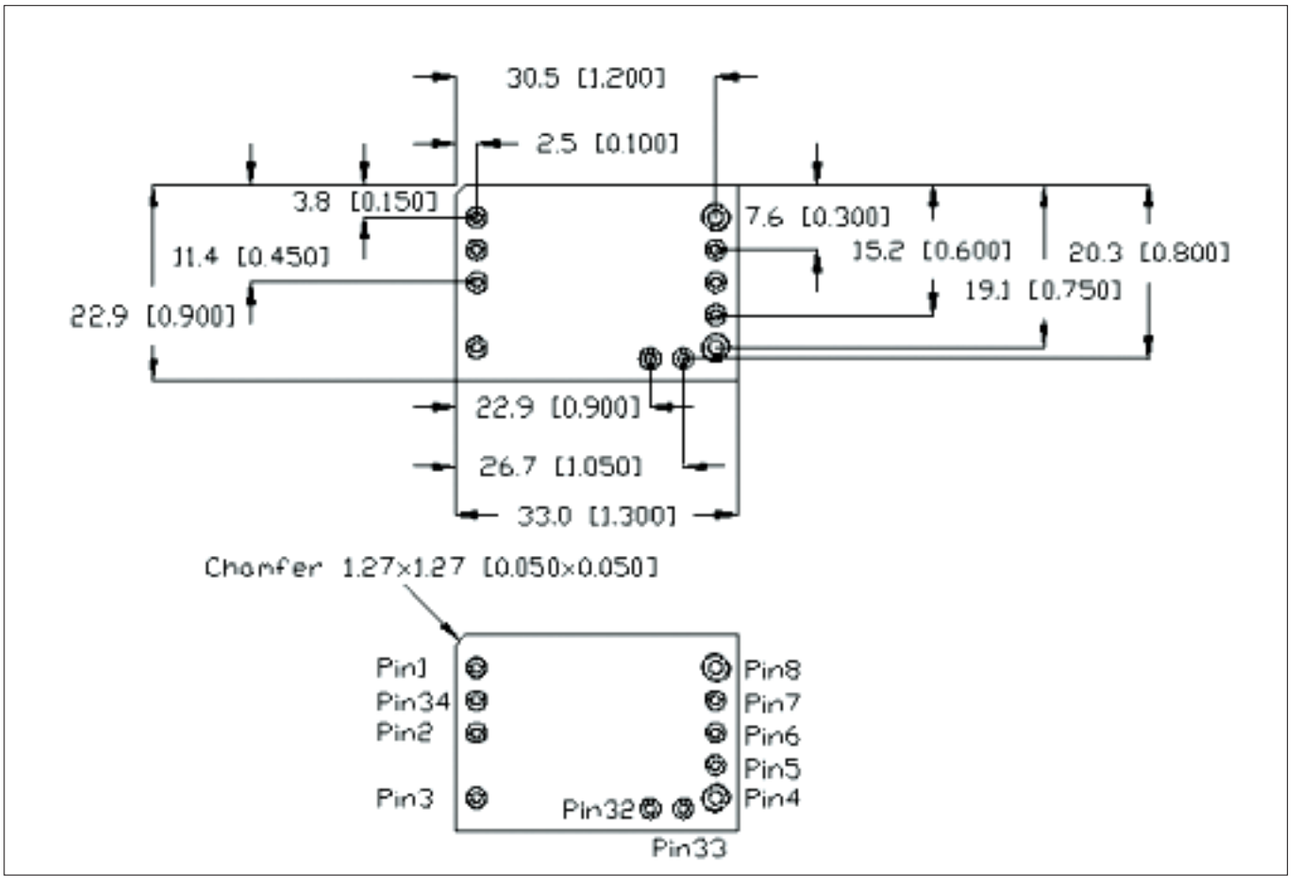
Model		i6A
DC Output Voltage	V	3.3 - 24
DC Input Voltage	V	9 - 40 (Turn on at 10V or greater)
Efficiency	%	92.5 - 98
Output Voltage Tolerance	%	±4
Switching Frequency	kHz	400
Line Regulation	%	0.3
Load Regulation	%	1
External Load Capacitance	uF	0 - 2000
Output Ripple and Noise	mVpp	20
Overcurrent Protection	A	22A typical
Remote On / Off	-	Negative Logic (For Positive Logic Contact Factory)
Remote Sense	-	(+) Sense, compensating up to 0.5% of output voltage
Power Good	-	Optional (Full Feature Version)
Sync & Sequencing	-	Optional (Full Feature Version)
Operating Temperature	°C	-40°C to 125°C (see thermal data on website)
Storage Temperature	°C	-55°C to 125°C
Safety Agency Approvals	-	IEC/EN 60950-1, UL/CSA 60950-1, CE mark (LVD & RoHS2)
Weight	g	15g
Size (LxWxH)	mm	33 x 22.9 x 12.7
Warranty	yrs	3

Model Selector

Input Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off	Full Feature
i6A24014A033V-000-R	9 - 40	14	3.3 - 24	Yes	-	-
i6A24014A033V-001-R	9 - 40	14	3.3 - 24	-	Yes	-
i6A24014A033V-002-R	9 - 40	14	3.3 - 24	Yes	-	Yes
i6A24014A033V-003-R	9 - 40	14	3.3 - 24	-	Yes	Yes

Preferred

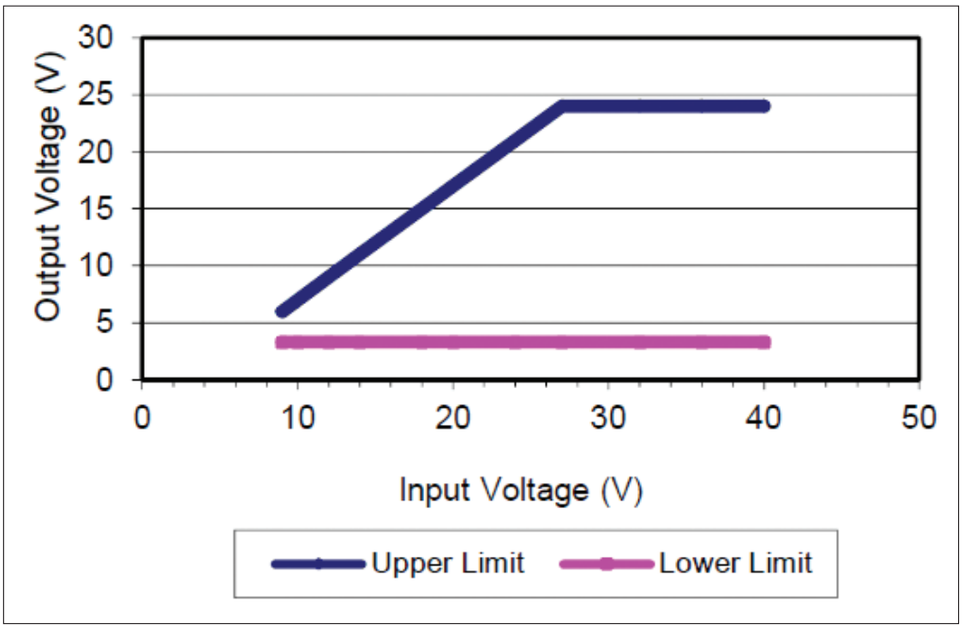
Outline Drawing i6A Series



Pin Assignment

PIN	Function	PIN	Function
1	VIN (+)	7	SENSE (+)
2	ON / OFF	8	VOUT (+)
3	VIN (-)	32	Sync (Option)
4	VOUT (-)	33	MS (Option)
5	PWR GOOD (Option)	34	SEQ (Option)
6	TRIM		

Output voltage vs input voltage operating range i6A Series



Note: *Output voltage cannot exceed input voltage (see graph above)*

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