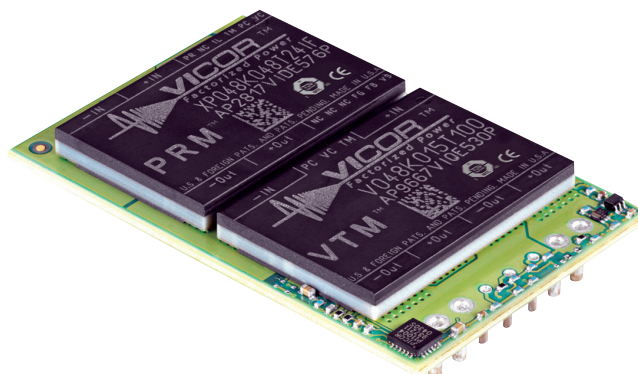


VICBrick Series

220W DC/DC CONVERTER PRELIMINARY

Features

- 36-75 Vdc input.
- Up to 84A/in³ or 185W/in³.
- 100°C operating temperature.
- High efficiency.
- Positive or negative logic enable.
- Low noise.
- 2,250Vdc basic insulation.
- Only 0.36" in height.
- Industry standard quarter-brick footprint.



VICBrick

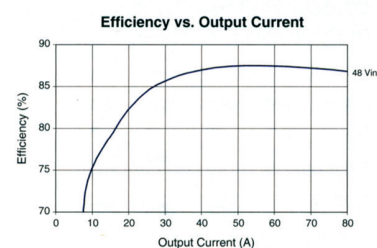
PRODUCT DESCRIPTION

These VICBricks are quarter-brick sized, high-performance DC-DC converters that conform to industry -standard footprints and pin-outs, while delivering unprecedented performance in power density, efficiency, transient response, and cost. This superior performance is enabled by the revolutionary V•I Chip technology with its Sine Amplitude Converter topology. Dual output pins are used for output current over 50A.

Part Numbering

D	0 4 8	C	0 3 3	T	0 1 8	M	2 N
Format	Nominal Input Voltage	C = Quarter Brick	Nominal Output Voltage (x10)	Product Grade Temperatures T = -40 to 125°C	Output Power (±10)	Enable Polarity P = "+" M = "-"	Package Style

Input Range	Model Number	Output			Typ. Full Load Efficiency (%)
		Vnom	I _{max}	Trim Range	
36 – 75 Vdc	D048C010T010M2N	1	100	0.81 – 1.5 Vdc	83
	D048C012T012M2N	1.2	100		84
	D048C015T012M2N	1.5	80	1.08 – 2.19 Vdc	87
	D048C018T014M2N	1.8	80		88
	D048C025T017M2N	2.5	70	1.63 – 3.32 Vdc	89
	D048C030T016M2N	3.0	55	2.17 – 4.0 Vdc	90
	D048C033T018M2N	3.3	55		91
	D048C050T018M1N	5.0	36	3.25 – 6.67 Vdc	92
	D048C100T018M1N	10.0	18	6.5 – 13.4 Vdc	92
	D048C120T022M1N	12.0	18.3		92
	D048C150T020M1N	15.0	13.3	8.67 – 17.9 Vdc	92
	D048C240T022M1N	24.0	9.2	13 – 27 Vdc	92
	D048C280T019M1N	28.0	6.8	17.4 – 36 Vdc	92
	D048C480T022M1N	48.0	4.6	26 – 54.3 Vdc	92



Typical efficiency vs. output current
1.5 Vout VICBrick