

For use in Industrial Process and Controls, Automotive, Military (Fixed & Mobile Platforms)
Power Distribution Systems, MIL-STD-1275 and MIL-STD-704E/F Systems

Features & Benefits

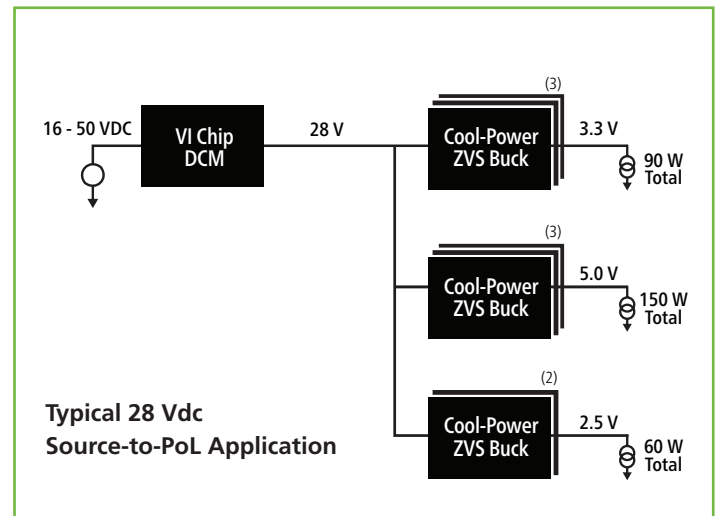
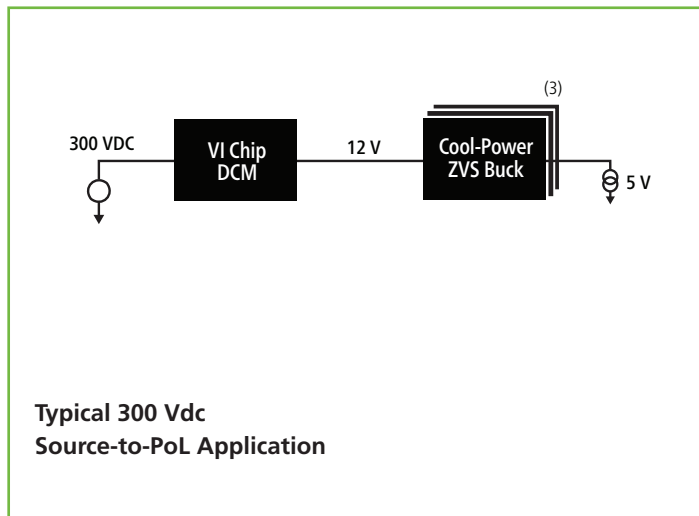
- Nominal input voltages of 300, 290, 270, 48, 28, 24 V
- Output voltages cover 48, 36, 28, 24, 15, 12, 5 V outputs
- High power density: up to 1,244 W/in³ in a 1.67 in² footprint (76 W/cm³ in a 10.77 cm²)
- Output power: up to 600 W
- High efficiency: over 93%
- Isolation: up to 4,242 Vdc
- Array eight units with no power derating
- Double-sided cooling



Description

Compared to traditional Bricks, VI Chip DCMs are the highest power density isolated and regulated DC-DC converters in the market. Board-mountable, these products enable power system designers to optimize the size, weight, and total cost of their products.

Block Diagrams



Product Table

Application	Nominal Input (V)	Package Size	Power (W) by Nominal Output Voltage (V)							
			5	12	13.8	15	24	28	36	48
Industrial HV	300	4623		400			600	500		500
Telecom/Datacom	48	3623	160	320		320		320	320	320
Industrial LV	24	3623	180	320		320	320	320	320	320
EV/HEV	290	4623			600					
MIL-COTS	270	4623	250	500		500	500	500		
MIL-COTS	28	3623	180	320		320	320	320		320

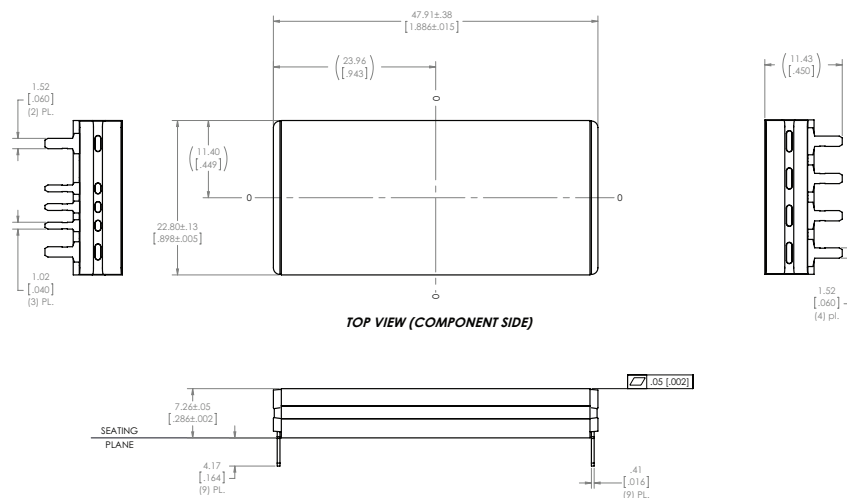
Part Number Decoder

DCM 290 P 138 T 600 A 4 0

Device	Input Voltage Range	Package Type	Output Voltage x10	Temperature Grade	Output Power	Rev	Package Size	Version
DCM	24A (18 – 36)	P = ChiP	120 = 12 V	T = -40 to 125°C	180 = 180 W	A	4 = 4623	0 = Analog
MDCM = (MIL-COTS)	28A (16 – 50)	Through-Hole	138 = 13.8 V	M = -55 to 125°C	320 = 320 W		5 = 3623	
	48A (36 – 75)		150 = 15 V		400 = 400 W			
	270 (160 – 420)		240 = 24 V		500 = 500 W			
	290 (160 – 420)		280 = 28 V		600 = 600 W			
	300 (180 – 420)		360 = 36 V					
			480 = 48 V					

Outline Drawings

4623 ChiP Package



3623 ChiP Package

