

# 24V Maxi Mini Micro

75-400 WATTS - DC/DC CONVERTERS

## FEATURES

- Input Voltage: 18-36Vdc
- Output Voltage: 3.3-48Vdc
- Up to 120 W/in<sup>3</sup>
- Low noise zero-current switching and zero-voltage switching technology
- Single-wire paralleling
- Output voltage adjusts from 10-110%
- Logic enable / disable
- Input undervoltage lockout
- Output overvoltage protection



## SPECIFICATIONS

INPUT		
Voltage range	18-36Vdc	
OUTPUT		
Set point accuracy	±1% Vout nom.	Nominal input; full load; 25°C
Line regulation	±0.02% Vout nom.	Low line to high line; full load
Load regulation	±0.02% Vout nom.	No load to full load; nominal input
Temperature regulation	±0.002% Vout/°C	-20°C to 100°C
Ripple and noise, p-p	100mV	Full load, 20 MHz bandwidth
Remote sense compensation	0.5 Volts	
Overvoltage set point	115% Vout nom.	
Current limit	115% out max.	Vout 95% of nominal
Efficiency: 5V out	83%	Nominal input; 80% load; 25°C
Programming range	10-110% Vout nom.	
Short circuit current	115% out max.	Output voltage <250mV
Isolation voltage	3000Vrms	Input to Output
(typical unless otherwise noted)		
STANDARDS AND APPROVALS		
Safety	UL60950-1, CSA60950-1, EN60950-1, IEC 60950-1	

## SELECTION TABLES


OUTPUT VOLTAGE (VDC)	OUTPUT POWER (W)		
	MICRO	MINI	MAXI
3.3V	75	150	264
5V	100	200	400
6.5V			400
8V	100	200	300
12V	100	200	400
15V	100	200	400
24V	100	200	400
28V	100	200	400
36V	100	200	400
48V	100	200	400

## PRODUCT GRADE SPECIFICATIONS

	E	C	T	H	M
Operating Temp. (°C)	-10 to 100	-20 to 100	-40 to 100	-40 to 100	-55 to 100
Storage Temp. (°C)	-20 to 125	-40 to 125	-40 to 125	-55 to 125	-65 to 125
Temp. Cycling (°C)	none	none	none	24 hours	24 hours
Burn-In	none	none	none	12 hours	24 hours
Low Temp. Test (°C)	none	none	none	-40°C	-55°C
High Temp. Test (°C)	none	none	none	100°C	100°C
Final Test Data	none	none	none		

Mechanical Drawings refer to page 237-238  
\*Other O/P voltage consult sales

## PART NUMBERING

<b>V</b>	<b>24</b>	<b>A</b>	<b>48</b>	<b>C</b>	<b>400</b>	<b>B</b>	<b>L</b>	
<b>Input Voltage</b>	<b>Package</b>	<b>Output Voltage</b>	<b>Product Grade</b>	<b>Output Power</b>	<b>Pin Style</b>	<b>Baseplate</b>		
	A = Maxi B = Mini C = Micro		E = -10 to +100°C C = -20 to +100°C T = -40 to +100°C H = -40 to +100°C M = -55 to +100°C		Blank = Short tin / lead L = Long tin / lead S = Short ModuMate N = Long ModuMate F = Short gold (RoHS) G = Long gold (RoHS)	Blank = Slotte 2 = Threadec 3 = Through h		

<sup>[a]</sup> Consult factory for other input / output / power models.