

300V Maxi Mini Micro

50-500 WATTS - DC/DC CONVERTERS

FEATURES

- Input Voltage: 180-375Vdc
- Output Voltage: 2-48Vdc
- Up to 120 W/in³
- 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

OUTPUT		
Voltage range	180-375Vdc	
OUTPUT		
Set point accuracy	±1% Vout nom.	Nominal input;
Line regulation	±0.02% Vout nom.	Low line to high
Load regulation	±0.02% Vout nom.	No load to full
Temperature regulation	±0.002% Vout/oC	-20°C to 100°C
Ripple and noise, p-p	100mV	Full load, 20MHz
Remote sense compensation	0.5Volts	
Overvoltage set point	115%Vout nom.	
Current limit	115% Iout max.	Vout 95% of nominal
Efficiency: 5V out	82%	Nominal input; load; 25°C
24V out	88%	
Programming range	10-110% Vout nom.	
Short circuit current	115% Iout max.	Output Voltage
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
2V	50	100	160
3.3V	75	150	264
5V	100	200	400
8V	100	200	400
12V	150	250	500
15V	150	250	500
24V	150	250	500
28V	150	250	500
36V	150	250	500
48V	150	250	500

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 (-55 to 125)	24 hours (-65 to 125)
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

V	300	A	48	C	500	B	L	
Input Voltage		Package	Output Voltage	Product Grade	Output Power		Pin Style	Baseplate
		A = Maxi		E = -10 to +100°C			Blank = Short tin / lead	Blank = Slotted
		B = Mini		C = -20 to +100°C			L = Long tin / lead	2 = Threaded
		C = Micro		T = -40 to +100°C			S = Short ModuMate	3 = Through hole
				H = -40 to +100°C			N = Long ModuMate	
				M = -55 to +100°C			F = Short gold (RoHS)	
							G = Long gold (RoHS)	

^(a) Consult factory for other input / output / power models.