

48V 2nd Gen

50 - 500W PCB MOUNTING COMPONENTS

Features

- **Input Voltage:** 36-75Vdc
- **Output Voltage:** 2-48Vdc
- **Output Power (per module)**
- **Micro:** 150W, **Mini:** 250W, **Maxi:** 500W
- **Efficiency:** Up to 90%
- **Agency Approvals:** UL, CSA, TUV, VDE, BABT, CE Marked, C-Tick



Specifications

GENERAL

	UNITS	NOTES
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/°C	-20°C to 100°C
Ripple and noise, p-p	100 mV	Full load, 20MHz
Remote sense compensation	0.5 Volts	
Overvoltage set point	115% Vout nom.	
Current limit	115% out max.	Vout 95% of
Efficiency: 5Vout 24Vout	83%	Nominal input; 88%
Programming range	10-110 % Vout nom.	
Short circuit current	115% out max.	Output Voltage
Isolation voltage	3000 Vrms	Input to Output
(typical unless otherwise noted)		

STANDARDS AND APPROVALS

C-Tick	AS/NZS CISPR11 Group 1 Class A
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Selection Table

OUTPUT VOLTAGE (VDC)	OUTPUT POWER (W)		
	MAXI	MINI	MICRO
2V	N/A	100	50
3.3V	264	150	75
5V	400	200	100/75/50
12V	500	250	150
15V	500	250	150
24V	500	250	150
28V	500	250	150
48V	500	250	150

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

Part Numbering

V	48	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 solder	Blank = Slotted
		B = Mini		C = -20 to +100°C			L = Long solder	2 = Threaded
		C = Micro		T = -40 to +100°C			S = Short ModuMate	3 = Thru hole
				H = -40 to +100°C			N = Long ModuMate	
				M = -55 to +100°C			F = Short RoHS	
							G = Long RoHS	