

VI J00

25 - 100 W PCB MOUNTING COMPONENTS

Features

- Inputs: 10 to 400VDC
- Output: 1 to 95VDC
- UL, CSA, TÜV, BABT, CF, VDF
- 80-90% efficiency (typical)
- Up to 27 watts/cubic inch
- ZCS power architecture
- Low noise FM control



Specifications

INPUT

Input voltage	See table
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OUTPUT

PRODUCT GRADE	E, C, I, M
Output voltage	See table
Output power	See table
Output ripple	1% pk-pk
Load regulation	0.05%
Line regulation	0.05%
Current limit setting	105%–125%
Set point accuracy	0.5%
Low-high trim voltage	50%–110%
Total remote sense Compensation	0.5V

OPERATING

MTBF	>1,000,000 hrs
Efficiency	80%–90%
Baseplate operating temp.	100°C

Isolation	Input – Output: 3000V rms
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ENVIRONMENTAL

Cooling	External cooling may be required, consult sales office
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STANDARDS AND APPROVALS

Safety	UL1950, CSA C22.2 No.950, TÜV IEC950, EN60950
C-Tick	AS/NZS CISPR11 Group 1 Class A

MECHANICAL

Dimensions	58x61x12.7mm
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Selection Table Guide

VI - J [a] [b] - [c] [d]

Note: For RoHS version replace VI with VE.

Mechanical Drawings See page 230

Selection Table

A = INPUT VOLTAGE		B = OUTPUT VOLTAGE	
Nominal	Range Notes		
0= 12V	10–20V (2)	Z = 2V	2 = 15V
1= 24V	21–32V (3)	Y = 3.3V	N = 18.5V
W= 24V	18–36V (3)	0 = 5V	3 = 24V
2= 36V	21–56V (1)	X = 5.2V	L = 28V
3= 48V	42–60V (5)	W = 5.5V	J = 36V
N= 48V	36–76V (4)	V = 5.8V	K = 40V
4= 72V	55–100V (4)	T = 6.5V	4 = 48V
T= 110V	66–160V (4)	R = 7.5V	H = 52V
5= 150V	100–200V (4)	M = 10V	F = 72V
6= 300V	200–400V (5)	1 = 12V	D = 85V
7= 150/300V	100–375V (1)	P = 13.8V	B = 95V

C = PRODUCT GRADE

D = OUTPUT POWER/CURRENT

	Size Module	
	V out ≥5V	V out <5V
E= -10°C to +100°C	Z= 25W	—
C= -25°C to +100°C	Y = 50W	Y= 10A
I= -40°C to +100°C	X = 75W	X= 15A
M= -55°C to +100°C	W = 100W	W= 20A

NOTES:

Maximum Output for:	(1)	(2)	(3)	(4)	(5)
5V Outputs	50W	50W	75W	75W	100W*
>5V Outputs	75W	75W	100W	100W	100W
<5V Outputs	10A	15A	20A	20A	20A

*100W @ 5V (20A), 300V input only.