



Wall Industries, Inc.

Power Sources and Converters
Excellence and Innovation

VMC Series

50 Watts

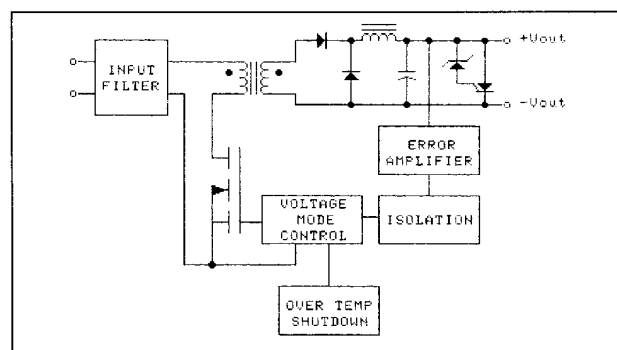
FEATURES

- 50 Watts
- No Heat Sink Required, -40°C to +85°C Case Temperature
- Trimmable Outputs
- High Voltage Input for Off-Line Applications
- 82% Efficiency 'Typical'
- Remote On/Off



The VMC Series from Wall Industries

The **VMC Series** of DC/DC converters offers up to 50 watts in a 4.6" x 2.4" x 0.84" package. The **VMC Series** accepts high voltage inputs, 155VDC nominal and 270 VDC nominal, for distributed power applications. Other key features are trimmable outputs, up to 82% efficiency, remote on/off, remote sense and no heat sink required at case temperatures from -40°C to +85°C.



SPECIFICATIONS

All specifications apply @ + 25°C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range 18-36, 36-72, 85-200, 170-400 VDC
 Nominal Input 24, 48, 155, 270 VDC
 Input Filter Pi-Input Filter
 Remote On/Off Control Open Collector TTL compatible

OUTPUT SPECIFICATIONS

Output Voltage Current see table
 Output Voltage Tolerance ± 1%
 Output Trim ± 10%
 Line Regulation 0.5%
 Load Regulation 0.5%
 Short Circuit Protection current limiting/thermal shutdown
 Over Voltage Protection see table
 Ripple/Noise ≤100mV (P-P)

GENERAL SPECIFICATIONS

Efficiency 82% 'typical'
 Isolation Voltage, input to output 500 VDC (min)
 Isolation Resistance, input to output 500 MΩ
 Switching Frequency 100KHz 'typical'

ENVIRONMENTAL SPECIFICATIONS

Commerical
 Operating Temperature -25°C to +85°C (case)
 Storage Temperature -55°C to +100°C
 Industrial
 Operating Temperature -40°C to +85°C (case)
 Storage Temperature -55°C to +100°C
 Humidity 20% - 95% R.H. (non-condensing)

PHYSICAL SPECIFICATIONS

Shielding six-sided shielding
 Weight 10.0 oz.
 Case Material Black coated metal, non-conductive base plate
 Specifications subject to change without notice.

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VMC



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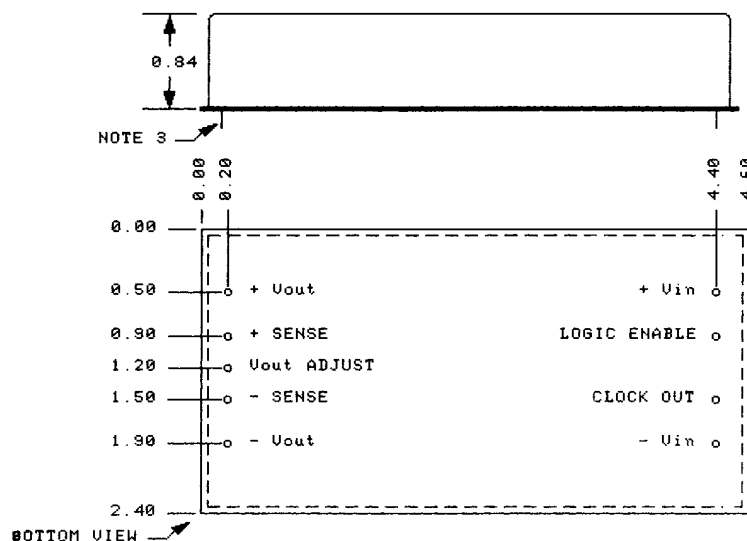
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SINGLE OUTPUT

VMC Series

INPUT VOLTAGE RANGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (Amps)	OVER VOLTAGE PROTECTION (VDC)	OUTPUT POWER (Watts)	MODEL
18-36	5	10.0	6.8	50	VMC24S5-50
18-36	12	4.16	15	50	VMC24S12-50
18-36	15	3.33	18	50	VMC24S15-50
18-36	24	2.08	27	50	VMC24S24-50
18-36	48	1.04	51	50	VMC24S48-50
36-72	5	10.0	6.8	50	VMC48S5-50
36-72	12	4.16	15	50	VMC48S12-50
36-72	15	3.33	18	50	VMC48S15-50
36-72	24	2.08	27	50	VMC48S24-50
36-72	48	1.04	51	50	VMC48S48-50
85-200	5	10.0	6.8	50	VMC155S5-50
85-200	12	4.16	15	50	VMC155S12-50
85-200	15	3.33	18	50	VMC155S15-50
85-200	24	2.08	27	50	VMC155S24-50
85-200	48	1.04	51	50	VMC155S48-50
170-400	5	10.0	6.8	50	VMC270S5-50
170-400	12	4.16	15	50	VMC270S12-50
170-400	15	3.33	18	50	VMC270S15-50
170-400	24	2.08	27	50	VMC270S24-50
170-400	48	1.04	51	50	VMC270S48-50



Notes

- 1: All case dimensions reference only unless otherwise noted.
- 2: Header plate protrudes 0.008" typical four sides.
- 3: All pins except those used for +Vout and -Vout diameter is 0.04". Pin diameter for +Vout and -Vout is 0.080". Pin length is 0.22" long min.
- 4: Tolerance - pin spacing ± 0.010 "; pin dia. ± 0.005 .

VMC
VMC-9209-3