

DMH SERIES

SINGLE OR DUAL OUTPUT DC/DC CONVERTER

Product Features

- Single or dual DC/DC Converter, up to 15 Watts
- Ideal for Telecom and Networking Applications
- 2:1 Input Range, High Efficiency, High Temperature
- Industry Compatible Pin Out, 1" x 2" Form Factor
- Remote On / Off, TTL
- Low Profile, 0.4" Height
- No external Input or Output Filtering required
- Regulated Output(s)
- Integrated Magnetic Architecture
- >1500VDC I/O Isolation, UL, CUL, TUV, CE Approvals pending



TYPICAL APPLICATIONS:

- 48Vdc Telecom
- On-Board Distributed Power
- Low Profile & Height PCB
- Dual Output Requirements

Overview

The DMH Series of high efficiency DC/DC converters are available as single or dual output versions, with up to 15 watts of output power. The product is ideal for Telecom and Networking applications. The converter is designed for a 2:1 input range, nominal 48VDC (36VDC-75VDC). The converter is PCB mountable, the package has a form factor of 1" x 2" x .4" and is six side shielded. The standard specifications include the Pi-input filter, excellent load regulation, remote ON/OFF capability, and short circuit protection. The isolation voltage meets the >1500VDC telecom requirements.

TABLE 1

Model Number	Input Voltage VDC	Output Volts//mA	Effic. %
DMH48S5-3000	36-75	5//3000	84
DMH48D5-1000	36-75	±5 // 500	80
DMH48D12-420	36-75	±12 //420	82
DMH48D15-300	36-75	±15 // 300	82

*for other input voltages, please consult the factory at:
mail@wallindustries.com*

SPECIFICATIONS:

Nominal Input:	48VDC (36-75VDC)
Output Voltage:	see Table 1
Output Power:	up to 15W
Efficiency:	~82% typical
Isolation Voltage:	>1500VDC
Operating Temperature:	-25C to +71C (ambient)
Max. Case Temp.	100C
Dimensions:	1" x 2" x 0.4"

For further information or Application Support:

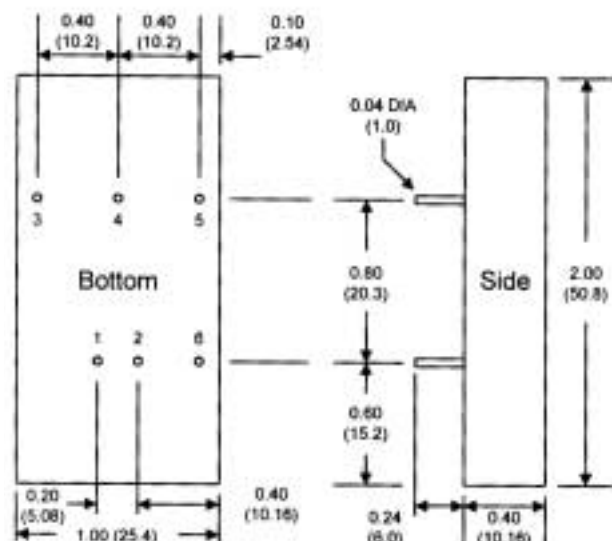
www.wallindustries.com

or call

1-888-597-WALL

Specification	Method	Min.	Typ.	Max.	Units
INPUT VOLTAGE:	48V version	36	48	75	Volts
REMOTE ON/OFF	TTL				TTL logic
INPUT FILTER	Pi-Filter				
OUTPUT VOLTAGE			see table		Volts
OUTPUT VOLTAGE Set Point			+/- 1%		% of Vout
OUTPUT CURRENT			see table		A
OVERCURRENT PROTECTION	Limiting				% of Iout
OUTPUT RIPPLE	20MHz BW		<70mV p-p		mV peak/peak
SHORT CIRCUIT PROTECTION	continuous				
LINE REGULATION	HL / LL				
LOAD REGULATION	10-100% load		+/- 1%		
TRANSIENT RESPONSE	within +/-1% Vout		<500u sec		
OUTPUT TRIM	n.a.		na.		% of Vout
EFFICIENCY			see table		
ISOLATION VOLTAGE			>1500VDC		VDC / 10sec
ISOLATION RESISTANCE	In/Out >100MOhms				
SWITCHING FREQUENCY			400kHz typ.		
OPERATING TEMPERATURE		-25		+71	degree C
STORAGE TEMPERATURE		-55		+105	degree C
CASE TEMPERATURE				+100	
WEIGHT			~2.5 oz		
DIMENSIONS	case w/o pin		1"x 2"x 0.4"		inches
CASE MATERIAL					Metal

Mechanical Configuration



All dimensions typical in inches (mm). Tolerance= +/- 0.01 (+/- 0.25)

Pin Connections

Pin	Single Output	Dual Output
1	+Input	+Input
2	-Input	-Input
3	+Output	+Output
4	No Pin	Common
5	-Output	-Output
6	Remote on/off	Remote on/off

NOTE: for trim option on pin #4, add suffix "T"

Physical Characteristics

Case Size	50.8x25.4x10.2 mm 2.0x1.0x0.4 inches
Case Material	Metal With Non-Conductive Base
Weight	30g

