

Size: 1.27in x 0.43in x 0.60in (32.2mm x 11mm x 15.2mm)

FEATURES

- 4:1 Wide Input Range
- SIP Package
- High Efficiency
- 100% Burned In
- Customized Solutions Available
- Short Circuit Protection
- UL94V-0 Package Material
- RoHS Compliant
- Designed to Meet AAMI/CSA 60601-1, IEC/EN60601-1 3.1 Edition

APPLICATIONS

- Medical
- Industrial
- ITE Applications

DESCRIPTION

The DCMW10 series of DC/DC converters offers up to 10 watts of output power in a compact 1.27" x 0.43" x 0.60" SIP package. This series consists of single and dual output models with a wide 4:1 input range. Features of this series include high efficiency, short circuit protection, and UL94V-0 package material. This series is RoHS compliant, has been 100% burned-in and is designed to meet AAMI/CSA 60601-1, IEC/EN60601-1 3.1 edition. Please contact factory for order details.

MODEL SELECTION TABLE

Single Output Models

Model Number	Input Voltage Range	Output Voltage	Output Current	Input Current		Efficiency	Output Power
				No Load	Max. Load		
DCMW10-24S03	24VDC (9~36VDC)	3.3VDC	2500mA	50mA	503mA	80%	10W
DCMW10-24S05		5VDC	2000mA	50mA	508mA	82%	
DCMW10-24S12		12VDC	833mA	30mA	502mA	83%	
DCMW10-24S15		15VDC	670mA	30mA	505mA	83%	
DCMW10-48S03	48VDC (18~75)	3.3VDC	2500mA	30mA	252mA	80%	10W
DCMW10-48S05		5VDC	2000mA	30mA	254mA	82%	
DCMW10-48S12		12VDC	833mA	20mA	251mA	83%	
DCMW10-48S15		15VDC	670mA	20mA	252mA	83%	

MODEL SELECTION TABLE

Dual Output Models

Model Number	Input Voltage Range	Output Voltage	Output Current	Input Current		Efficiency	Output Power
				No Load	Max. Load		
DCMW10-24D05	24VDC (9~36VDC)	±5VDC	±1000mA	30mA	502mA	83%	10W
DCMW10-24D12		±12VDC	±420mA	30mA	506mA	83%	
DCMW10-24D15		±15VDC	±340mA	30mA	512mA	83%	
DCMW10-48D05	48VDC (18~75)	±5VDC	±1000mA	20mA	251mA	83%	10W
DCMW10-48D12		±12VDC	±420mA	20mA	253mA	83%	
DCMW10-48D15		±15VDC	±340mA	20mA	256mA	83%	

SPECIFICATIONS

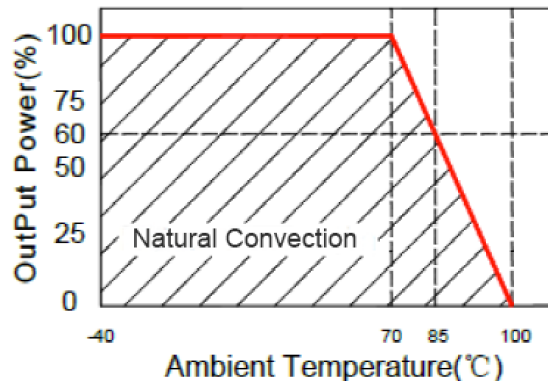
All specifications are based on 25°C, Nominal Input Voltage, and Rated Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	24VDC Nominal Input	9	24	36	VDC
	48VDC Nominal Input	18	48	75	
Input Filter		Pi Network			
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Tolerance	Full Load @Vin(nom.)			±2	%
Line Regulation				±0.5	%
Load Regulation	Single Outputs			±0.5	%
	Dual (Balanced Load)			±0.5	
Cross Regulation	Dual (25% to 100% Load)			±5	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise	BW=DC to 20MHz	3-15VDC Output Models		100	mVp-p
		>15VDC Output Models		1	% of Vout
Transient Response Setting Time	25% Load Step Change			350	us
PROTECTION					
Short Circuit Protection		Hiccup, Automatic Recovery			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	With derating	-40		100	°C
Storage Temperature		-55		125	°C
Humidity	Non-Condensing			95	%
Cooling		Free Air Convection			
MTBF	MIL-HDBK-217F@25°C	700,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Switching Frequency		270	300	330	KHz
Isolation Voltage			3000		VAC
Isolation Resistance	500VDC	1000			MΩ
PHYSICAL SPECIFICATIONS					
Weight		0.48oz (13.5g)			
Dimensions (L x W x H)		1.27in x 0.43in x 0.60in (32.2mm x 11mm x 15.2mm)			
Case Material		Plastic			
SAFETY CHARACTERISTICS					
Safety Approvals		Designed Refers to	AAMI/CSA 60601-1 IEC/EN60601-1 3.1 Edition		

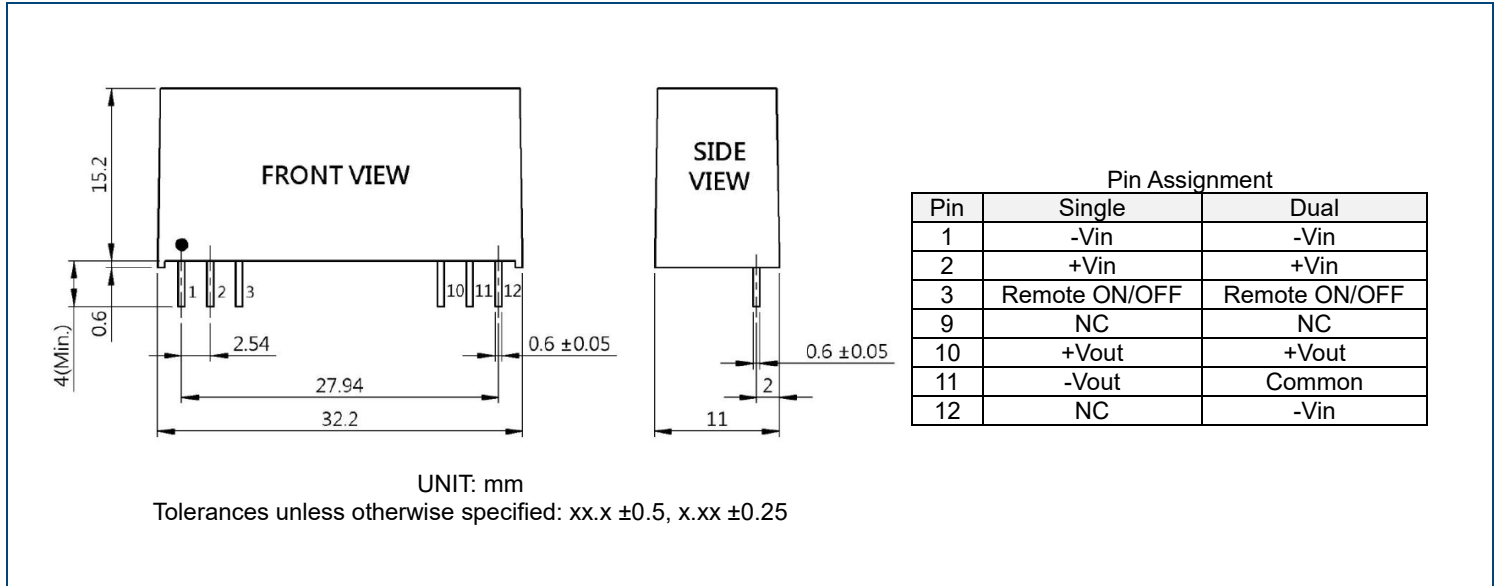
NOTES

*Due to advances in technology, specifications subject to change without notice.

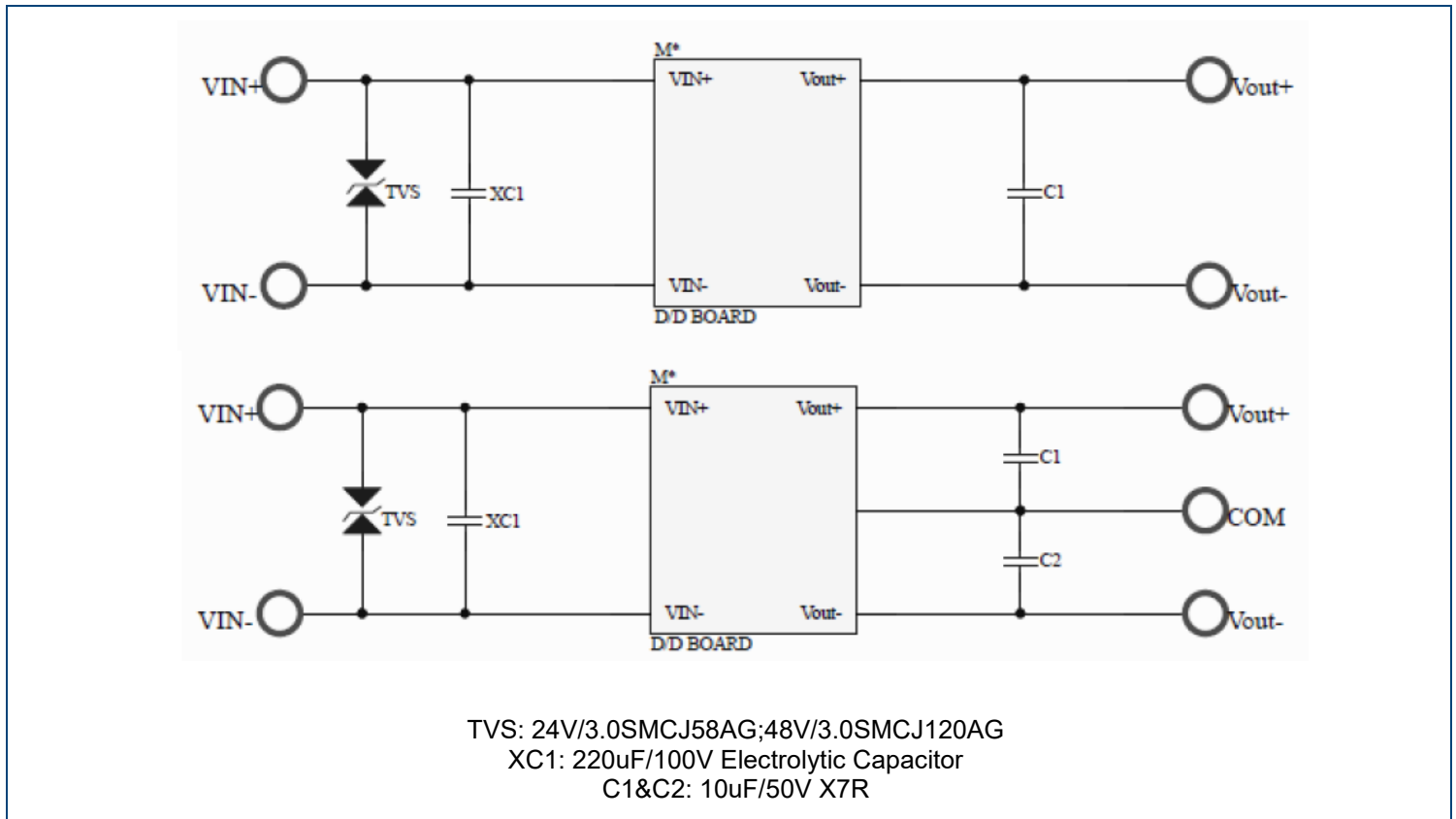
DERATING CURVES



MECHANICAL DRAWINGS



RECOMMENDED TEST CIRCUIT



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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