Clearance and Creepage Distance: 8.0mm/2MOPP

• ANSI/AAMI ES60601-1, EN60601-1, IEC60601-1 3rd

Edition, UL60950-1, EN60950-1, & IEC60950-1

Optional Remote On/Off Control and Trim Pin

· Short Circuit, Over Voltage, and Over Load

Compliant to RoHS II & REACH



Size: 1.25 x 0.80 x 0.40 inches

Applications:

- Medical Equipment
- Telecom/Datacom
- Semiconductor Equipment
- Industry Control Systems
- PV Power Systems
- IGBT Gate Drivers

FEATURES

- 2µA Patient Leakage Current
- Single & Dual Outputs
- High Efficiency up to 89%
- 4:1 Ultra Wide Input Voltage Ranges
- Built-in EMI Class A Filter
- Up to 10 Watts Output Power
- 5000VAC I/O 2MOPP Isolation
- Reinforced Insulation for 250VAC Working

Voltage

DESCRIPTION

The DCMPPW10 series of medical DC/DC power converters provides up to 10 Watts of output power in a 1.25" x 0.80" x 0.40" DIP package. This series consists of single and dual output models with 4:1 ultra wide input voltage ranges of 9-36VDC and 18-75VDC. Some features include high efficiency up to 89%, 5000VAC I/O (2 MOPP) isolation, and -40°C to +105°C operating temperature range. These converters are also protected against short circuit, over voltage, and over load conditions. All models are RoHS compliant and have ANSI/AAMI ES60601-1, EN60601-1, IEC60601-1 3rd Edition, UL60950-1, EN60950-1, and IEC60950-1 safety approvals. Remote on/off and Trim functions are also available for this series.

Protection

Safety Approvals

CE Marked

MODEL SELECTION TABLE								
SINGLE OUTPUT MODELS								
Model Number ⁽¹⁾	Input Voltage	Output Voltage	Output Current	Output Ripple & Noise	No Load Input Current	Output Power	Efficiency	Maximum Capacitive Load
DCMPPW10-24S33x		3.3 VDC	2500mA	30mVp-p	6mA	8.25W	83%	3000µF
DCMPPW10-24S05x	24VDC	5 VDC	2000mA	30mVp-p	6mA	10W	86.5%	2500µF
DCMPPW10-24S12x	-	12 VDC	830mA	40mVp-p	6mA	10W	89%	430µF
DCMPPW10-24S15x	(9 - 36 VDC)	15 VDC	670mA	40mVp-p	6mA	10W	89%	350µF
DCMPPW10-24S24x		24 VDC	416mA	50mVp-p	6mA	10W	89%	125µF
DCMPPW10-48S33x		3.3 VDC	2500mA	30mVp-p	4mA	8.25W	82.5%	3000µF
DCMPPW10-48S05x	48 VDC	5 VDC	2000mA	30mVp-p	4mA	10W	86.5%	2500µF
DCMPPW10-48S12x		12 VDC	830mA	40mVp-p	4mA	10W	89%	430µF
DCMPPW10-48S15x	(18 - 75 VDC)	15 VDC	670mA	40mVp-p	4mA	10W	89%	350µF
DCMPPW10-48S24x		24 VDC	416mA	50mVp-p	4mA	10W	88.5%	125µF
DUAL OUTPUT MODELS								
Model Number ⁽¹⁾	Input Voltage	Output Voltage	Output Current	Output Ripple & Noise	No Load Input Current	Output Power	Efficiency	Maximum Capacitive Load
DCMPPW10-24D05x	24 VDC	±5 VDC	±1000mA	30mVp-p	6mA	10W	85%	±1440µF
DCMPPW10-24D12x	-	±12 VDC	±416mA	40mVp-p	6mA	10W	89%	±250µF
DCMPPW10-24D15x	(9 - 36 VDC)	±15 VDC	±333mA	40mVp-p	6mA	10W	88%	±180µF
DCMPPW10-48D05x	48 VDC	±5 VDC	±1000mA	30mVp-p	4mA	10W	85%	±1440µF
DCMPPW10-48D12x		±12 VDC	±416mA	40mVp-p	4mA	10W	88%	±250µF
DCMPPW10-48D15x	(18 - 75 VDC)	±15 VDC	±333mA	40mVp-p	4mA	10W	88%	±180µF

TECHNICAL SPECIFICATIONS: DCMPPW10 SERIES

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

Rev F

Input Voltage Range48 VDStart-Up Voltage24 VDShutdown Voltage24 VDA8 VD24 VDInput Surge Voltage (3sec, max.)24 VDInput CurrentNo LoInput FilterInput CurrentRemote On/Off Control (Only for "B" type pin connection models)ReferenceInput Current of CTRL PinNomirNotage AccuracyInput VoltageUitput VoltageVoltage AccuracyLine RegulationLow liLoad RegulationAsymitVoltage Adjustability (Only for "B" type pin connection models)SingleOutput PowerInput CurrentOutput CurrentAsymitKaimum Capacitive LoadMinimiRipple & Noise (20MHz BW)Measa Measa Transient Response Recovery Time	enced to –INPUT pin al Vin	DC/ Sing Dua Sing	DC ON DC OFF	9 18 -0.5 -1.0	Pi Open or (36 75 9 18 50 100 Table type 0 ~ 1.2VDC 12 VDC 12 VDC 1	VDC VDC VDC VDC mA	
Input Voltage Range48 VDStart-Up Voltage24 VDShutdown Voltage24 VDA8 VD48 VDInput Surge Voltage (3sec, max.)24 VDInput CurrentNo LoInput FilterNo LoRemote On/Off Control (Only for "B" type pin connection models)ReferenceInput Current of CTRL PinNomirNotage AccuracyInput VoltageUnput Voltage AccuracyLine RegulationLoad RegulationAsymiVoltage Adjustability (Only for "B" type pin connection models)Single Dual COutput VoltageInput CurrentLoad RegulationAsymiCoutput Voltage Adjustability (Only for "B" type pin connection models)Single Dual CVoltage Adjustability (Only for "B" type pin connection models)Measu Transient Response Recovery TimeStart-Up TimeConstTemperature CoefficientSingle	C nominal input models C nominal input models ad enced to –INPUT pin al Vin al Vin al Vin al Vin al Vin al Vin al Vin	DC/ Sing Dua Sing	DC OFF	-0.5	48 8 16 See Pi Open or 0 2.2 ~ 1 2.5	75 9 18 50 100 Table type) ~ 1.2VDC 12 VDC	VDC VDC VDC mA	
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Input Surge Voltage (3sec, max.)24VD 48VDInput CurrentNo LoInput FilterReferenceRemote On/Off Control (Only for "B" type pin connection models)ReferenceInput Current of CTRL PinNominRemote Off Input CurrentNominOUTPUT SPECIFICATIONSOutput VoltageVoltage AccuracyLow liLoad RegulationLow liVoltage Adjustability (Only for "B" type pin connection models)SingleOutput PowerOutput PowerOutput CurrentMeaseRegulationMinimRegulationMeaseCoutput PowerMeaseOutput CurrentMeaseMaximum Capacitive LoadMinimRipple & Noise (20MHz BW)MeaseStart-Up TimeConstTemperature CoefficientFernet Const	C nominal input models C nominal input models ad enced to –INPUT pin al Vin al Vin he to high line at full load d to full load metrical load 25%/100% FL	DC/ Sing Dua Sing	DC OFF		Pi Open or 0 2.2 ~ 7 2.5	100 Table type) ~ 1.2VDC 12 VDC	mA	
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Remote On/Off Control (Only for "B" type pin connection models)Reference ReferenceInput Current of CTRL PinNominRemote Off Input CurrentNominOUTPUT SPECIFICATIONSOutput VoltageOutput Voltage AccuracyILine RegulationLow liLoad RegulationAsyminVoltage Adjustability (Only for "B" type pin connection models)Single Dual (Output PowerIOutput CurrentMease Mease MeaseRipple & Noise (20MHz BW)Mease Mease Transient Response Recovery TimeStart-Up TimeConst	al Vin al Vin ne to high line at full load d to full load netrical load 25%/100% FL	DC/ Sing Dua Sing	DC OFF		Open or 0 2.2 ~ 7 2.5) ~ 1.2VDC 12 VDC		
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Output VoltageImage: Start-Up TimeVoltage AccuracyImage: Start-Up TimeLine RegulationLow lineLoad RegulationNo loadCross RegulationAsymmetryVoltage Adjustability (Only for "B" type pin connection models)Single Dual OOutput PowerImage: Start-Up TimeConstruction Response Recovery Time25% image ConstructionTemperature CoefficientImage: Start-Up TimeTemperature CoefficientImage: Start-Up Time	d to full load netrical load 25%/100% FL	Dua Sing		-10	See		1103	
Voltage AccuracyImage: Constraint of the sector	d to full load netrical load 25%/100% FL	Dua Sing		-10	366	Table		
Line RegulationLow liLoad RegulationNo loaCross RegulationAsymVoltage Adjustability (Only for "B" type pin connection models)SingleOutput PowerDual OOutput CurrentMeasuMaximum Capacitive LoadMinim MeasuRipple & Noise (20MHz BW)Measu MeasuTransient Response Recovery Time25% liStart-Up TimeConstTemperature CoefficientI	d to full load netrical load 25%/100% FL	Dua Sing			_	+1.0	%	
Load Regulation No loa Cross Regulation Asymi Voltage Adjustability (Only for "B" type pin connection models) Output Power Output Current Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measu Transient Response Recovery Time 25% Measu Start-Up Time Const	d to full load netrical load 25%/100% FL	Dua Sing	gle Output Models	-0.2		+0.2	70	
Cross RegulationAsymVoltage Adjustability (Only for "B" type pin connection models)Single Dual COutput PowerImage: Construction modelsOutput CurrentMeasu Measu Measu Transient Response Recovery TimeStart-Up TimeConstTemperature CoefficientImage: Const	netrical load 25%/100% FL	Sing	5 1	-0.2		+0.2	%	
Cross RegulationAsymVoltage Adjustability (Only for "B" type pin connection models)Single Dual COutput PowerImage: Construction modelsOutput CurrentMeasu Measu Measu Transient Response Recovery TimeStart-Up TimeConstTemperature CoefficientImage: Const	netrical load 25%/100% FL		al Output Models					
Voltage Adjustability Single (Only for "B" type pin connection models) Dual (Output Power Output Current Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measu Transient Response Recovery Time 25% II Start-Up Time Const Temperature Coefficient I			gle Output Models	-0.2		+0.2	%	
Voltage Adjustability Single (Only for "B" type pin connection models) Dual (Output Power Output Current Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measu Transient Response Recovery Time 25% II Start-Up Time Const Temperature Coefficient I			al Output Models	-1.0		+1.0	0/	
(Only for "B" type pin connection models) Dual (Output Power Output Current Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measu Transient Response Recovery Time 25% I Start-Up Time Const Temperature Coefficient I	Output Models		al Output Models	-5.0		+5.0	%	
(Only for "B" type pin connection models) Dual (Dual (Dual (Dual (Dual))) Output Power Output Current Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measure Transient Response Recovery Time 25% I Start-Up Time Const Temperature Coefficient I			V, 5V, 12V Output Models	-10		+10	%	
Output Power Dual C Output Current Maximum Capacitive Load Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measure Transient Response Recovery Time 25% I Start-Up Time Constr Temperature Coefficient I			, 24V Output Models	-10		+20		
Output Current Maximum Capacitive Load Minim Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Measu Transient Response Recovery Time 25% I Start-Up Time Const Temperature Coefficient I	Output Models	±5V	, ±12V, ±15V Output Models	-10		+10	%	
Maximum Capacitive Load Minim Ripple & Noise (20MHz BW) Transient Response Recovery Time 25% I Start-Up Time Const Temperature Coefficient						Table		
Ripple & Noise (20MHz BW) Measure Measure Measure Transient Response Recovery Time 25% In Start-Up Time Constr Temperature Coefficient Constr					See	Table		
Measure Transient Response Recovery Time Start-Up Time Constr Temperature Coefficient	Minimum input and constant resistive load				See	Table		
Measurement Transient Response Recovery Time 25% In Start-Up Time Construction Temperature Coefficient In	Measured with a 10 μ F/25V X7R MLC Measured with a 10 μ F/25V X7R MLC		3.3V, 5V Output Models		30		mVp-p	
Transient Response Recovery Time 25% I Start-Up Time Const Temperature Coefficient			12V, 15V Output Models		40			
Start-Up Time Const Temperature Coefficient	ired with a 4.7µF/50V X7R M	LCC	CC 24V Output Models		50			
Temperature Coefficient	oad step change				250		μs	
Temperature Coefficient	ant registive load		Power Up		30		ma	
•	Constant resistive load		Remote On/Off		30		ms	
DRATECTION				-0.02		+0.02	%/°C	
FIGILGIUN								
Short Circuit Protection				Cont	inuous, au	tomatic reco	overy	
Over Load Protection % of r	ated lout; hiccup mode				150		%	
			3.3V Output Models	3.7		5.0		
			5V Output Models 5.6			7.0	_	
Single	Output Models		12V Output Models	13.5		16.0	VDC	
	•		15V Outputs Models	18.3		22.0		
Over Voltage Protection			24V Output Models	29.1		34.5		
			5V Output Models	5.6		7.0		
Dual (Dual Output Models		12V Output Models	13.5		18.2		
	12V Output Models			17.0		22.0		
GENERAL SPECIFICATIONS					I			
	al input voltage and full load				See	Table		
Switching Frequency				270	300	330	kHz	
Isolation Voltage (Input to Output) 1 minu	Ite			5000	000	000	VAC	
Isolation Capacitance				5000	12	17	pF	
					12			
Clearance/Creepage		240VAC, 60Hz				2	μA mm	



TECHNICAL SPECIFICATIONS: DCMPPW10 SERIES

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

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SPECIFICATION	Т	EST CONDITIONS	Min	Тур	Max	Unit
ENVIRONMENTAL SPECIFICATIONS						
Operating Ambient Temperature	Without derating		-40		+77	°C
	With derating		+77		+105	C
Storage Temperature Range			-55		+125	°C
Thermal Impedance	Natural convection (20LF	FM)		18		°C/W
Relative Humidity			5		95	% RH
Thermal Shock				MIL-ST	D-810F	
Vibration				MIL-ST	D-810F	
MTBF	MIL-HDBK-217F Ta=25°	C, full load (G/B, controlled environment)		3,849,0	00 hours	
PHYSICAL SPECIFICATIONS						
Weight				0.480	z (14g)	
Dimensione (L x M x L)				1.25x0.80x	0.40 inches	;
Dimensions (L x W x H)			(31.8x20.3x10.2mm)			
Case Material			No	n-conductiv	/e black pla	stic
Base Material			No	n-conductiv	/e black pla	stic
Potting Material				Silicon (UL94-V0)	
SAFETY & EMC CHARACTERISTICS						
Safety Approvals (pending)		ANSI/AAMI ES60601-1, IEC60601-1, EN6060)1-1, UL609	50-1 ⁽⁶⁾ , EN	60950-1, IE	C60950-1
EMI (See Note 2)	EN55011, EN55022	2, and FCC Part 18			Class	A, Class B
ESD	EN61000-4-2	Air ±8kV	Dor		f. Criteria A	
230	EN01000-4-2	Contact ±6kV	Pen. Chiena			
Radiated Immunity	EN61000-4-3	10 V/m			Perf	Criteria A
Fast Transient (See Note 3)	EN61000-4-4	±2kV			Perf	Criteria A
Surge (See Note 3)	EN61000-4-5	±2kV			Perf	Criteria A
Conducted Immunity	EN61000-4-6	10 Vrms				Criteria A
Power Frequency Magnetic Field	EN61000-4-8	100A/m continuous; 1000A/m 1 second			Perf	Criteria A

NOTES

1. The "**x**" in the model number represents the Pin Connection type. It can be "**A**" for pin connection type A or "**B**" for pin connection type B. See mechanical drawings on page 4 for more information.

2. The DCMPPW10 series meets EMI Class A without an external filter added. This series can only meet EMI Class B with external components added. Please contact factory for more information.

3. An external input filter capacitor is required if the module has to meet EN61000-4-4, EN61000-4-5.

- For 24VDC nominal input models we recommend connecting an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 470µF/50V) in parallel.
- For 48VDC nominal input models we recommend connecting an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 330µF/100V) in parallel.

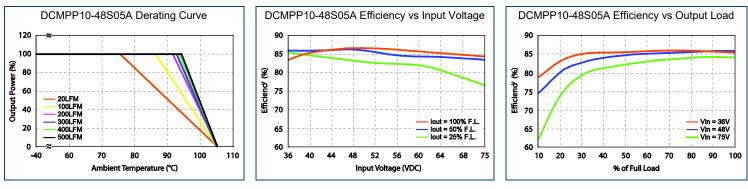
4. Remote On/Off control is optional and is only available for "B" type pin connection models. To order the converter with remote on/off add the suffix "-P" to the model number (Ex: DCMPPW10-48S12B-P).

5. Trim function is optional and is only available for "B" type pin connection models. To order the converter with Trim pin add the suffix "-T" to the model number (Ex: DCMPPW10-48S12B-T).

6. This product is Listed to applicable standards and requirements by UL.

CAUTION: This power module is not internally fused. An input line fuse must always be used. *Due to advances in technology, specifications subject to change without notice.

CHARACTERISTIC CURVES



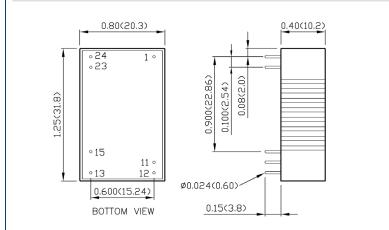
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MECHANICAL DRAWINGS



Rev F



PIN CONNECTIONS						
PIN	SINGLE	DUAL				
1	+Vin	+Vin				
11	NO PIN	COMMON				
12	-Vout	NO PIN				
13	+Vout	-Vout				
15	NO P IN	+Vout				
23	-Vin	-Vin				
24	-Vin	-Vin				

- 1. Dimensions in inch (mm)
- 2. Tolerance: x.xx±0.02 (x.x±0.5)
 - x.xxx±0.01 (x.xx±0.25)
- 3. Pin Pitch Tolerance: ±0.01 (±0.25) Pin Dimension Tolerance: ±0.004 (±0.1)

B Type Pin Connection (Suffix "B")

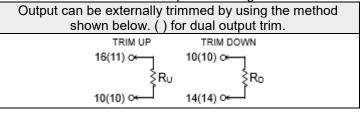
PIN CONNECTIONS						
PIN	SINGLE	DUAL				
1	CTRL (Optional)/ No Pin*	CTRL (Optional)/No Pin*				
2	-Vin	-Vin				
10	TRIM (Optional)/No Pin*	TRIM (Optional)/No Pin*				
11	**NO PIN/NC	-Vout				
14	+Vout	+Vout				
16	-Vout	COMMON				
22	+Vin	+Vin				
23	+Vin	+Vin				

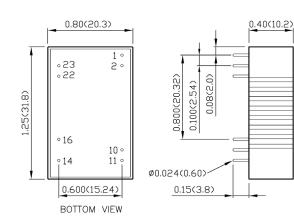
* If Ctrl of Trim options are not chosen then there is "No Pin" on the corresponding pin number.

Pin 11 is "No Pin" for	*Pin 11 is "NC" for
DCMPP10-XXSXXB-T	DCMPP10-XXSXXB
DCMPP10-XXSXXB-PT	DCMPP10-XXSXXB-P

- 1. Dimensions in inch (mm)
- 2. Tolerance: x.xx±0.02 (x.x±0.5) x.xxx±0.01 (x.xx±0.25)
- 3. Pin Pitch Tolerance: ± 0.01 (± 0.25)
- 4. Pin Dimension Tolerance: ± 0.004 (± 0.1)

External Output Trimming







MODEL NUMBER SET-

DCMPPW	10	-	48	S	05	В	-	P ⁽¹⁾	T ⁽¹⁾
Series Name	Output Power		Input Voltage	Output Quantity	Output Voltage	Pin Connection		Remote ON/OFF Option	Trim Option
	10: 10 Watts		24: 24 VDC	S: Single Output	33: 3.3 VDC	А: А Туре		No Remote ON/OFF	None No Trim
			48: 48 VDC		05: 5 VDC	B: B Type		P: Remote ON/OFF	T: Trim
					12: 12 VDC				
					15: 15 VDC				
					24: 24 VDC				
				D: Dual Output	05: ±5 VDC				
					12: ±12 VDC				
					15: ±15 VDC				

Rev F

(1) Remote On/Off Control and Trim options are only available for "B" type pin connection models.

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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