

## 10W Medical DC-DC Converters

### Features

- ◆ Industry Standard DIP-24 Package
- ◆ 9-36V or 18-75VDC Input
- ◆ 5kVAC Isolation (2xMOPPs)
- ◆ 2.5uA Leakage Current
- ◆ Low Off-Load Power Draw



### Key Market Segments & Applications



Specifications			
Model		PXC-M10	PXC-M10W
Max Output Power	W		10W
Voltage Accuracy	%		±1%
Voltage Adjustment (T)	%	+/-10% (-10% +20% on 15V & 24V single output models) (see options table)	
Minimum Load	-		None
Line Regulation	%	Single Output: ±0.2%, Dual Output: ±0.5%	
Load Regulation	%	Single Output: ±0.2%, Dual Output: ±1%	
Cross Regulation	%	±5% (25-100% load)	
Ripple and Noise	-	See table	
Start up time	ms	30ms	
Remote on/off	-	See options table	
Temperature Coefficient	%/°C	<±0.02%/°C	
Operating Temperature (1)	°C	-40 to +105°C, derating necessary above 77°C	
Storage Temperature	°C	-55 to 125°C	
Thermal Shock	-	MIL-STD-810F	
Relative Humidity (non condensing)	%RH	5 to 95%RH	
Transient Response (25% step load change)	µs	< 250µs recovery	
Overvoltage Protection	V	Single Output: 3.3V: 3.7-5V, 5V: 5.6-7V, 12V: 13.5-16V, 15V: 18.3-22V, 24V: 29.1-34.5V Dual Output: 5V: 5.6-7V, 12V: 13.5-18.2V, 15V: 17-22V	
Overcurrent and Short Circuit Protection	%	Typically at 150%, hiccup with self recovery	
Input Surge Voltage (Maximum for 100ms)	V	5V input: 16V, 24V input: 50V, 48V input: 100V	
Isolation Voltage	V	5,000VAC	
Isolation Resistance	Ω	10 <sup>9</sup> Ω minimum	
Isolation Capacitance (max)	pF	17pF maximum	
Typical Switching Frequency (Fixed)	kHz	300kHz (±30kHz)	
MTBF (MIL-HDBK-217F)	Hours	3,849,000	
Vibration	-	MIL-STD-810F	
Conducted and Radiated Emissions	-	See Installation Diagrams	
Immunity	-	EN61000-4-2, -3, -4, -5, -6 Pref Criteria A	
Safety Agency Certifications	-	IEC/EN60601-1, ES60601-1, CE Mark	
Size (L x W x H)	mm(″)	31.8 x 20.3 x 10.2mm (1.25 x 0.8 x 0.4″)	
Weight	g	14g	
Warranty	yrs	Five Years	

#### Notes:

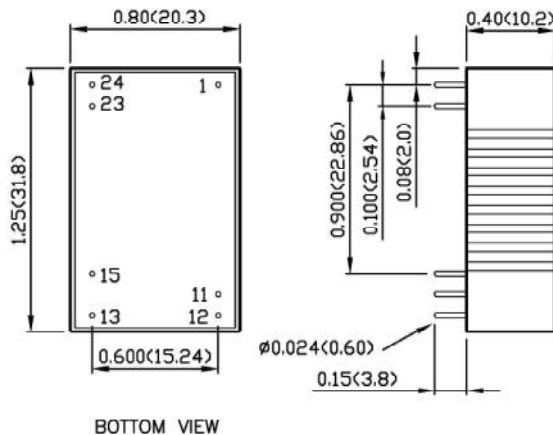
See installation manual for full specifications and test measurements.

(1) Convection cooling. See installation manual for forced air ratings.

## Model Selector

Model	Output Voltage (V)	Output Current (A)	Output Power (W)	Input Voltage (V)	Input Current No Load (mA)	Efficiency (%)	Ripple & Noise (Pk-Pk mV)	Max Load Capacitance (uF)
<b>Single Outputs</b>								
PXC-M10-24WS3P3-A	3.3	2.5	8.3	9 - 36	6	83.0	30	3000
PXC-M10-48WS3P3-A	3.3	2.5	8.3	18 - 75	4	82.5	30	3000
PXC-M10-24WS05-A	5	2	10.0	9 - 36	6	86.5	30	2500
PXC-M10-48WS05-A	5	2	10.0	18 - 75	4	86.5	30	2500
PXC-M10-24WS12-A	12	0.83	10.0	9 - 36	6	89.0	40	430
PXC-M10-48WS12-A	12	0.83	10.0	18 - 75	4	89.0	40	430
PXC-M10-24WS15-A	15	0.67	10.1	9 - 36	6	89.0	40	350
PXC-M10-48WS15-A	15	0.67	10.1	18 - 75	4	89.0	40	350
PXC-M10-24WS24-A	24	0.416	10.0	9 - 36	6	89.0	50	125
PXC-M10-48WS24-A	24	0.416	10.0	18 - 75	4	88.5	50	125
<b>Dual Outputs</b>								
PXC-M10-24WD05-A	±5	±1	10.0	9 - 36	6	85.0	30	±1440
PXC-M10-48WD05-A	±5	±1	10.0	18 - 75	4	85.0	30	±1440
PXC-M10-24WD12-A	±12	±0.416	10.0	9 - 36	6	89.0	40	±250
PXC-M10-48WD12-A	±12	±0.416	10.0	18 - 75	4	88.0	40	±250
PXC-M10-24WD15-A	±15	±0.333	10.0	9 - 36	6	88.0	40	±180
PXC-M10-48WD15-A	±15	±0.333	10.0	18 - 75	4	88.0	40	±180

## Outline Drawing, Pinout Style A



## Options

-A	Pinout style A (Standard Version)
No suffix	Pinout style B (No remote on/off & no trim pin)
-P	Pinout style B (Positive remote on/off & no trim pin)
-T	Pinout style B (Trim pin & no remote on/off)
-PT	Pinout style B (Positive remote on/off & trim pin)

## Other DC-DC Products

PX	10 - 60W, 12V, 24V, 48V input DC-DC
CC-E	1.5 - 25W, 5V, 12V, 24V & 48V input DC-DC
i6A	14A, 9-40V input POL
iA, iB, iC, iJ	3 - 60A, 5V & 12V input POL

For Additional Information, please visit  
<https://product.tdk.com/info/en/products/power/index.html>



## Pinout (Style A)

PIN #	Single Output	Dual Output
1	+ Input	+ Input
11	No pin	Common
12	- Output	No pin
13	+ Output	- Output
15	No pin	+ Output
23	- Input	- Input
24	- Input	- Input

(See website for Pinout Style B)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Isolated DC/DC Converters](#) category:*

*Click to view products by [TDK-Lambda](#) manufacturer:*

Other Similar products are found below :

[PSL486-7LR](#) [Q48T30020-NBB0](#) [JAHW100Y1](#) [SPB05C-12](#) [SQ24S15033-PS0S](#) [CE-1003](#) [CE-1004](#) [MAU228](#) [J80-0041NL](#) [DFC15U48D15](#)  
[XGS-1205](#) [06322](#) [SPB05B-15](#) [L-DA20](#) [DCG40-5G](#) [XKS-2405](#) [DPA423R](#) [vi-m13-cw-03](#) [VI-L53-CV](#) [24IBX15-50-0ZG](#) [HZZ01204-G](#)  
[SPU02L-09](#) [SPU02M-09](#) [SPU02N-09](#) [QUINT4-BUFFER/24DC/40](#) [QUINT4-CAP/24DC/5/4KJ](#) [73-551-5039I](#) [DFC15U48D15G](#) [SEN-6471-](#)  
[1EM](#) [AHV2815DF/HBB](#) [MI-LC21-IX](#) [PAH-48/8.5-D48NB1-C](#) [BM3020-7A](#) [QRS2050P025K00](#) [CM2320-9EG](#) [SKMW15F-05](#)  
[V300A28H400BF3](#) [TEN 15-1223](#) [TEQ 100-2418WIR](#) [TEQ 160-7218WIR](#) [R05C05TE05S-R](#) [HQA2W085W033V-N07-S](#) [AM1SS-2405SJZ](#)  
[AM2DS-1224SJZ](#) [AM2DS-2405DJZ](#) [AM10SBO-4824SNZ-B](#) [AM15E-2405S-NZ](#) [AM2DS-1212SJZ](#) [AM30SBO-4805SNZ-B](#)  
[LT8301ES5#WTRPBF](#)