



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 40-60W Single, Dual & Triple Output DIN Mount DC-DC Converters

### Features

- ◆ DIN Rail Mount Version of TDK-Lambda's PX Series
- ◆ 1600VDC Input to Output Isolation
- ◆ Wide Operating Temperature Range
- ◆ Internally Protected
- ◆ All In One Package



### Key Market Segments & Applications



Industrial



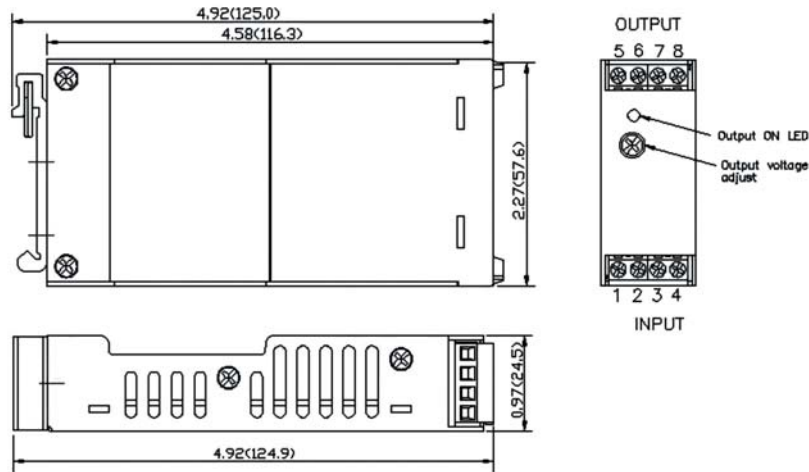
RoHS

Specifications			DPX40	DPX60
Max Output Power	W		40W	60W
Efficiency	%		85% typical at nominal input & full load	
Voltage Accuracy	%		Single, Dual & Triple Main $\pm 1\%$ , Triple auxiliaries $\pm 5\%$	
Volt. Adjust. (Single Output Only)	%		$\pm 10\%$	
Minimum Load, each output (1)	%		Single output 0%, Dual & Triple outputs 10%	
Line Regulation	%		Single / Dual $\pm 0.5\%$ , Triple (main) $\pm 1\%$ , (auxiliaries) $\pm 5\%$	
Load Regulation (10% to 100%)	%		Single $\pm 0.5\%$ , Dual $\pm 1\%$ , Triple (main) $\pm 2\%$ , (auxiliaries) $\pm 5\%$	
Cross Regulation (25% to 100%)	%		Triple (main) $\pm 1\%$ , Dual / Triple (auxiliaries) $\pm 5\%$	
Start up time	ms		100ms typ.	
Remote on/off (ref. to neg. input)	-		Positive Logic: ON: Open or 3.5-12V, OFF: Short or <1.2V	
Temperature Coefficient	%/°C		$< \pm 0.02\%/^{\circ}\text{C}$	
Operating Temperature	°C		-40 to 85°C, derate linearly to 20% load from 60°C to 85°C	
Storage Temperature	°C		-40 to 85°C	
Thermal Shock	-		MIL-STD-810D	
Relative Humidity	%RH		5 to 95%RH (non condensing)	
Trans. Resp.(25% step load chng.)	ms		250 $\mu$ s recovery	
Overvolt. Protection (Zener clamp)	-		5V: 6.2V, 12V: 15V, 15V: 18V	
Overcurr. & Short Circuit Protection	-		Typically at 150%, hiccup with self recovery	
Input Surge Volt. (Max. for 100ms)	-		12V input: 36V, 24V input: 50V, 48V input: 100V	
Isolation Voltage	VDC		1600VDC minimum	
Isolation Resistance	$\Omega$		10 <sup>9</sup> Ohms minimum	
Typical Switching Frequency (Fixed)	kHz		300kHz (typ)	
Shock & Vibration	-		MIL-STD-810F	
Conducted & Radiated Emissions	-		EN55022 Level B	
Immunity	-		EN61000-4-2, -3, -4, -5, -6 Pref Criteria A	
Safety Agency Approval	-		CE Mark	
Size (W x H x L)	in(mm)		0.96 x 2.27 x 4.92" (24.5 x 57.6 x 125mm)	
Weight	g		182g	
Warranty	yrs		Two Years	

1. No load operation will not damage the unit



## Outline Drawing



## Model Selector

Output Voltage (V)	Output Current (A)	Input Voltage (VDC)	Model	Ripple & Noise (Pk to Pk mV)	Max Load Cap (uF)
<b>Single Outputs</b>					
5V	8A	9.5 - 36VDC	DPX4024WS05	50mV	13600uF
12V	3.33A	9.5 - 36VDC	DPX4024WS12	75mV	2360uF
15V	2.67A	9.5 - 36VDC	DPX4024WS15	75mV	1510uF
5V	8A	18 - 75VDC	DPX4048WS05	50mV	13600uF
12V	3.33A	18 - 75VDC	DPX4048WS12	75mV	2360uF
15V	2.67A	18 - 75VDC	DPX4048WS15	75mV	1510uF
5V	12A	18 - 36VDC	DPX6024S05	75mV	20400uF
12V	5A	18 - 36VDC	DPX6024S12	100mV	3550uF
15V	4A	18 - 36VDC	DPX6024S15	100mV	2300uF
5V	12A	36 - 75VDC	DPX6048S05	75mV	20400uF
12V	5A	36 - 75VDC	DPX6048S12	100mV	3550uF
15V	4A	36 - 75VDC	DPX6048S15	100mV	2300uF
<b>Dual Outputs</b>					
±12	1.667A	9.5 - 36VDC	DPX4024WD12	120mV	±1200uF
±15	1.333A	9.5 - 36VDC	DPX4024WD15	150mV	±1510uF
±12	1.667A	18 - 75VDC	DPX4048WD12	120mV	±1200uF
±15	1.333A	18 - 75VDC	DPX4048WD15	150mV	±1510uF
<b>Triple Outputs</b>					
+5V, ±12V	6, ±0.4A	9.5 - 18VDC	DPX4012T0512	50 / 75mV	6800uF, ±330uF
+5V, ±15V	6, ±0.3A	9.5 - 18VDC	DPX4012T0515	50 / 75mV	6800uF, ±110uF
+5V, ±12V	6, ±0.4A	18 - 36VDC	DPX4024T0512	50 / 75mV	6800uF, ±330uF
+5V, ±15V	6, ±0.3A	18 - 36VDC	DPX4024T0515	50 / 75mV	6800uF, ±110uF
+5V, ±12V	6, ±0.4A	36 - 75VDC	DPX4048T0512	50 / 75mV	6800uF, ±330uF
+5V, ±15V	6, ±0.3A	36 - 75VDC	DPX4048T0515	50 / 75mV	6800uF, ±110uF

## Pin Connection

PIN	SINGLE	DUAL	TRIPLE
1	Ctrl	Ctrl	Ctrl
2	VIN (-)	VIN (-)	VIN (-)
3	VIN (-)	VIN (-)	VIN (-)
4	VIN (+)	VIN (+)	VIN (+)
5	NC	NC	Aux (+)
6	VOUT (-)	VOUT (-)	Common
7	VOUT (+)	Common	Aux (-)
8	NC	VOUT (+)	VOUT (+)

## Other Industrial Products

DPP / DSP	10W to 960W, 5V to 48V power supplies
DLP	75W to 240W, 24V power supplies
DLP-PU	Redundancy Module (20A)
R Series	6A to 30A, single and three phase EMI filters

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/dpx-series.htm](http://us.tdk-lambda.com/lp/products/dpx-series.htm)

