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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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## 15-40W Medical AC-DC PCB-Mount Power Supplies

### Features

- ◆ Small size and lightweight
- ◆ PC Board Mountable
- ◆ Wide Range Input
- ◆ Medical Safety Certifications (4kVAC Input - Output)
- ◆ Class II (No ground needed)
- ◆ High efficiency



### Key Market Segments & Applications



Specifications		KMS15	KMD15	KMT15	KMS40	KMD40	KMT40
Input Voltage Range	-	90-264VAC 47-440Hz or 100-375VDC*					
Inrush Current Limiting	A	10 / 20A, cold start, 25°C ambient (115 / 230VAC)					
Input Current (115 / 230VAC)	mA	292 / 188mA			860 / 460mA		
Recommended External Fuse	-	2A slow blow type			3.15A slow blow type		
Temperature Coefficient	-	±0.01%/°C					
Ripple and Noise (pk-pk)	mV	50mV or 1%, whichever is greater					
Overcurrent Protection	-	> 105%, hiccup mode, automatic recovery					
Overvoltage Protection	%	Yes, Zener diode clamp					
Hold-up Time (typical)	ms	20ms			18ms		
Enclosure Leakage (240VAC 63Hz) (264VAC 63Hz)	mA	0.055 max 0.06 max			0.08 max 0.085 max		
Operating Temperature	°C	-25°C to 70°C, derate linearly to 50%(1) load from 50°C to 70°C. Max case temperature 95°C					
Storage Temperature	°C	-40°C to 100°C					
Humidity	%RH	20% to 95% RH (non-condensing)					
Cooling	-	Convection, over temperature protected ~100°C case temperature					
Withstand Voltage	VAC	Input to output: 4kVAC (Reinforced) (2 x MOPPS 3rd Edition)					
Immunity	-	EN60601-1-2					
Safety Agency Certification	-	UL/CSA/IEC/EN 60601-1, ANSI/AAMI ES60601-1, IEC/EN60950-1, CE Mark					
Conducted EMI	-	EN55011, EN55022 Class B			EN55011, EN55022 Class A		
Switching Frequency	kHz	132kHz					
Weight	g	120			280		
Size (LxWxH)	in	2.52 x 1.79 x 0.92"			3.5 x 2.5 x 1.06"		
Mounting & Case	-	PC board mountable. Plastic resin fiberglass case (UL 94V-0)					
MTBF	hrs	200,000 to 400,000 hours, model dependent					
Warranty	yrs	2 years					

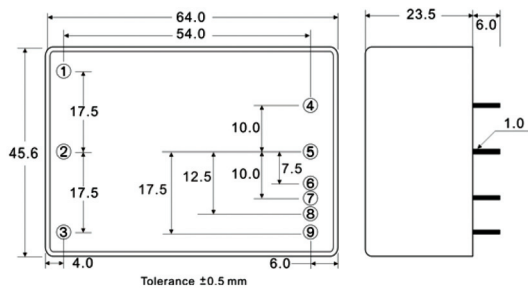
(1) KM15 derates linearly to 40% load

\*Safety certified for AC input only

## Output Ratings

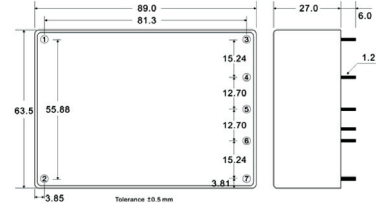
Model	Output Voltage (V)	Minimum Current (A)	Maximum Current (A)	Power (W)	Output Set Accuracy (%)	Line Regulation (%)	Load Regulation (1) (%)	Cross Regulation	Efficiency (%)
<b>Single Output</b>									
KMS15-3P3	V1 3.3V	0A	3.00A	9.9W	±2%	0.5%	1%	-	74%
KMS40-3P3	V1 3.3V	80mA	8.00A	26.4W	±2%	0.5%	1%	-	75%
KMS15-5	V1 5V	0A	3.00A	15W	±2%	0.5%	1%	-	78%
KMS40-5	V1 5V	80mA	8.00A	40W	±2%	0.5%	1%	-	79%
KMS15-9	V1 9V	0A	1.67A	15W	±2%	0.5%	1%	-	79%
KMS40-9	V1 9V	44mA	4.44A	40W	±2%	0.5%	1%	-	82%
KMS15-12	V1 12V	0A	1.25A	15W	±2%	0.5%	1%	-	81%
KMS40-12	V1 12V	33mA	3.33A	40W	±2%	0.5%	1%	-	83%
KMS15-15	V1 15V	0A	1.00A	15W	±2%	0.5%	1%	-	81%
KMS40-15	V1 15V	26.7mA	2.67A	40W	±2%	0.5%	1%	-	83%
KMS15-24	V1 24V	0A	0.62A	15W	±2%	0.5%	1%	-	83%
KMS40-24	V1 24V	16.7mA	1.67A	40W	±2%	0.5%	1%	-	83%
<b>Dual Output</b>									
KMD15-55	V1 +5V	150mA	1.5A	15W	±2%	0.5%	1%	5%	78%
	V2 -5V	150mA	1.5A		±2%	0.5%	1%	5%	
KMD40-55	V1 +5V	400mA	4A	40W	±2%	0.5%	1%	5%	79%
	V2 -5V	400mA	4A		±2%	0.5%	1%	5%	
KMD40-512	V1 5V(2)	1250mA	5A	40W	±3%	0.5%	2%	1%	80%
	V2 12V(2)	312mA	1.25A		±5%	5.0%	6%	7%	
KMD40-524	V1 5V(2)	1250mA	5A	40W	±3%	0.5%	2%	1%	80%
	V2 24V(2)	156mA	0.625A		±5%	5.0%	6%	7%	
KMD15-1212	V1 +12V	62.5mA	0.625A	15W	±2%	0.5%	1%	3%	80%
	V2 -12V	62.5mA	0.625A		±2%	0.5%	1%	3%	
KMD40-1212	V1 +12V	166mA	1.66A	40W	±2%	0.5%	1%	5%	83%
	V2 -12V	166mA	1.66A		±2%	0.5%	1%	5%	
KMD15-1515	V1 +15V	50mA	0.5A	15W	±2%	0.5%	1%	3%	81%
	V2 -15V	50mA	0.5A		±2%	0.5%	1%	3%	
KMD40-1515	V1 +15V	133mA	1.33A	40W	±2%	0.5%	1%	5%	81%
	V2 -15V	133mA	1.33A		±2%	0.5%	1%	5%	
<b>Triple Output</b>									
KMT15-51212	V1 5V(3)	500mA	2A	15W	±2%	0.5%	1%	1%	78%
	V2 +12V	50mA	0.2A		±3%	2.0%	5%	5%	
	V3 -12V	50mA	0.2A		±3%	2.0%	5%	5%	
KMT40-51212	V1 5V(3)	1250mA	5A	40W	±3%	0.5%	3%	3%	80%
	V2 +12V	150mA	0.6A		±5%	5.0%	7%	7%	
	V3 -12V	150mA	0.6A		±5%	5.0%	7%	7%	
KMT15-51515	V1 5V(3)	500mA	2A	15W	±2%	0.5%	1%	1%	78%
	V2 +15V	37.5mA	0.15A		±3%	2.0%	5%	5%	
	V3 -15V	37.5mA	0.15A		±3%	2.0%	5%	5%	
KMT40-51515	V1 5V(3)	1250mA	5A	40W	±3%	0.5%	3%	3%	80%
	V2 +15V	125mA	0.5A		±5%	5.0%	7%	7%	
	V3 -15V	125mA	0.5A		±5%	5.0%	7%	7%	

## KM15 Outline Drawings



- (1) Symmetrical loading, from minimum to maximum load
- (2) Output V1 is isolated from output V2
- (3) Output V1 is isolated from outputs V2 & V3

## KM40 Outline Drawings



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

