

## 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	-	105-200%, 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	-	IEC/EN 62368-1, IEC/UL/CSA/EN 60601-1, ANSI/AAMI ES 60601-1, IEC/EN 60950-1, CE Mark					
Conducted EMI	-	EN55011, EN55032 Class B			EN55011, EN55032 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					

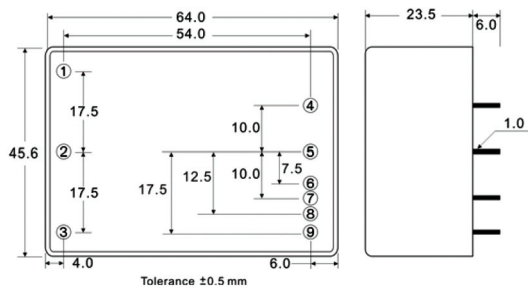
(1) KM15 derates linearly to 40% load

\*Safety certified for AC input only

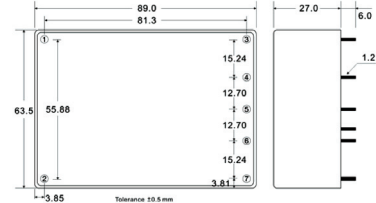
## Output Ratings

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



## KM40 Outline Drawings



For additional information, please visit  
<https://product.tdk.com/en/power/>



- (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

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