



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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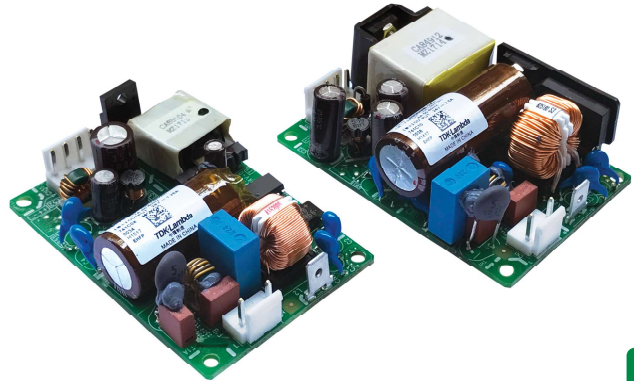


# TDK-Lambda CUS30M & CUS60M Series

## Single Output 30 to 60W Medical & ITE Power Supplies

### Features

- ◆ High Efficiency, up to 90%
- ◆ Industry Standard 2" x 3" Footprint
- ◆ Convection Cooled
- ◆ Class I and II Operation
- ◆ Suitable for B and BF rated equipment



### Key Market Segments & Applications



Specifications		CUS30M	CUS60M
AC Input Voltage	VAC	85 - 265VAC(1)	
Input Frequency	Hz	47 - 63Hz	
Inrush Current (cold start)	A	30A at 115VAC, 60A at 230VAC	
Power Factor	-	Meets EN61000-3-2	
Input Current (115/230VAC)	A	0.6 / 0.4	5V: 0.7 / 0.5, 12-48V: 1.2 / 0.8
Off-load Power Draw	W	<0.3W at 265VAC	<0.5W at 265VAC
Temperature Coefficient	%/°C	<0.02%/°C	
Output Voltage Adjustment	-	Fixed as standard. Use /ADJ suffix for potentiometer ±10% adjustment	
Overcurrent Protection	-	>105% of rated current. Class 2 Limited Power Source (2)	
Overvoltage Protection (3)	V	> 115% of nominal output	> 120% of nominal output
Hold Up Time (Typical) (115/230VAC)	ms	20 / 100	
Leakage Current	mA	<0.25mA at 265VAC, 60Hz	<0.2mA at 265VAC, 60Hz
Touch Current (Maximum)	µA	100µA at 265VAC, 60Hz	60µA at 265VAC, 60Hz
Remote Sense	-	No	
Operating Temperature	°C	-20 to +70°C. (-30°C start up) Derate linearly to 50% load from +50 to +70°C (4)	
Storage Temperature	°C	-40 to +85°C	
Humidity (non condensing)	%RH	10 - 95%RH (Operating & Storage)	
Cooling	-	Convection Cooled	
Withstand Voltage		Input to Ground 2kVAC (1xMOPP), Input to Output 4kVAC (2xMOPPs), Output to Ground 1.5kVAC (1xMOPP) suitable for B & BF rated equipment	
Isolation Resistance	MΩ	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	10 - 55Hz: 19.6m/s <sup>2</sup> constant sweep 1 min X, Y, Z for 1 hour	
Shock	-	< 196.1 m/s <sup>2</sup> , MIL-STD-810F	
Immunity	-	IEC61000-4-2 (lv 4), -3 (lv3), -4 (lv 3), -5 (lv3, 4), -6 (lv 3), -8 (lv 4), -11, Criteria A. IEC60601-1-2 Ed4 SEMIF47 (200-240VAC), IEC61000-4-11 (Class 3)	
Line Voltage Dips	-	Criteria A: Vin >120VAC or <70% load, Criteria B: Vin <120VAC and >70% load	
Safety Agency Certifications	-	EN/IEC/UL/ES/CSA60601-1, EN/IEC/UL/CSA60950-1, IEC60335-1, CE Mark	
Altitude	m	5,000m, derate operating ambient by 5°C/1000m above 3,000m	
Conducted & Radiated EMI	-	EN55011-B, EN55032-B, FCC Class B	
Weight (Typ)	g	62	120
Size (LxWxH)	mm(in)	76.2 x 50.8 x 24.2mm (3 x 2 x 0.95")	76.2 x 50.8 x 26.7mm (3 x 2 x 1.05")
Warranty	yrs	Three Years	

#### Notes:

- (1) CUS30M: Derate linearly to 80% load from 115VAC to 85VAC. CUS60M: Derate linearly to 80% load from 100VAC to 85VAC
- (2) All models except CUS60M-5
- (3) Cycle AC to reset
- (4) CUS30M-18, -48 and CUS60M-5, -12: Derate linearly to 50% load from +45 to +70°C

# TDK-Lambda CUS30M & CUS60M Series

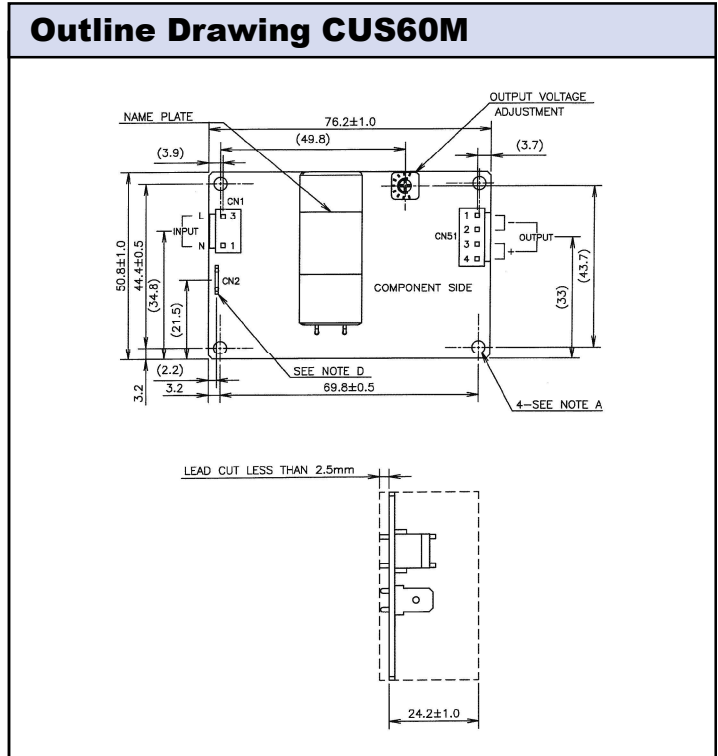
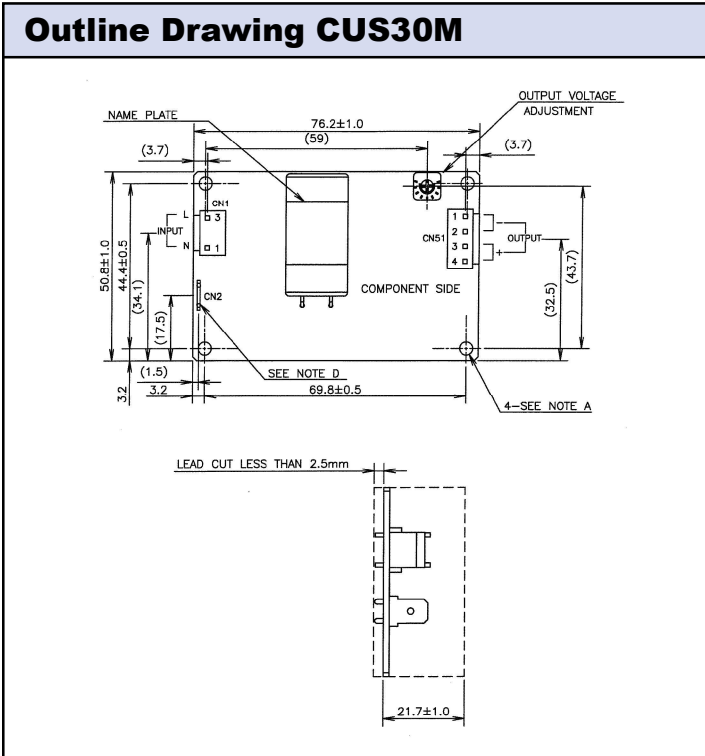
Model Selector								
Model	Voltage	Max Current (A)	Max Power (W)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV) <sup>(5)</sup>	Efficiency (typ) % <sup>(6)</sup>	Average Active Efficiency (typ) % <sup>(6)</sup>
CUS60M-5 *	5V	6.0	30.0	100	20	120	81 / 81	81 / 80
CUS30M-12	12V	2.5	30.0	120	48	120	87 / 88	87 / 87
CUS60M-12	12V	5.0	60.0	120	48	120	87 / 88	87 / 86
CUS60M-15 *	15V	4.0	60	120	60	150	88 / 89	87 / 87
CUS60M-18 *	18V	3.25	60.3	144	72	150	88 / 89	87 / 87
CUS30M-24	24V	1.25	30.0	192	96	150	88 / 90	87 / 87
CUS60M-24	24V	2.5	60.0	192	96	150	89 / 90	88 / 87
CUS30M-48	48V	0.63	30.24	384	192	200	88 / 90	88 / 89
CUS60M-48*	48V	1.25	60.0	384	192	200	89 / 90	89 / 88

Notes:

(5) Ripple level increases at light loading to meet new efficiency standards

(6) 115/230VAC

\* Available Q2 2018.



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

