## TDK·Lambda

## CUS600M Series

## 3 x 5" 600W AC-DC Power Supplies

www.us.tdk-lambda.com/lp/products/cus-m-series emea.lambda.tdk.com/cus600m





The compact CUS600M is packaged in the industry standard 3x5" footprint and can deliver 600W with forced air or 400W with a 600W peak power with convection cooling. With Medical & ITE certifications, the unit can used in both Class I & Class II (no ground wire) applications, and meets Class B Conducted and Radiated EMI. A 5V 2A standby voltage, remote on/off, remote sense and a Power Good signal are fitted as standard. Other options, including an internal fan are available.

Features	Benefits
400W (600W Peak) Convection Cooled	Quiet Operation
600W with Forced Air	Can Utilize System Airflow or Integrated Fan
Medical Certifications (2 x MOPP)	Suitable for B and BF Type Medical Equipment
Class B Conducted and Radiated EMI	Easier System EMC Compliance
Suitable for Class I and Class II installations	Flexible Utilisation
Compact 3 x 5 x 1.46" Size	Space Saving in End Equipment
Enclosure & Other Options	Versatile Application

Model Selector
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Model	Nominal Output Voltage (V)	Output Adjustment (V) (Specifiy /ADJ option suffix)	Maximum Current Convection (A)	Maximum Current Forced Air (A)	Peak Current (A)	Maximum Power Convection (W)	Maximum Power Forced Air (W)
CUS600M-12	12	12 - 12.9	33.4	50.0	50.0	400.8	600.0
CUS600M-19	19	19 - 20.5	21.1	31.6	31.6	400.9	600.4
CUS600M-24	24	24 - 25.9	16.7	25.0	25.0	400.8	600.0
CUS600M-28	28	28 - 30.2	14.3	21.5	21.5	400.4	602.0
CUS600M-32	32	32 - 34.5	12.5	18.8	18.8	400.0	601.6
CUS600M-36	36	36 - 38.8	11.1	16.7	16.7	399.6	601.2
CUS600M-48	48	48 - 51.8	8.4	12.6	12.6	403.2	604.8

CUS600M-	12	1			
Output voltage 12, 19, 24, 28, 32, 36, 48					

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blank	Open frame construction		
/EF	Enclosed with end fan (exhaust air)*		
/C	Solder side pcb coating		
/ADJ	Output adjustment potentiometer		
/SF	Single input fuse (Line)		

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\* Available 2020 Q2

Other options are available, please contact sales



## Specifications

-1				
Model		CUS600M		
Input				
Input Voltage range	V	85 - 265Vac (See derating curves)		
Input Frequency	Hz	47 - 63Hz		
Input Current (115/230Vac)	А	< 6.0 / 3.0 (600W)		
Inrush Current at 230Vac (typ) (Cold Start)	А	<50A		
Leakage Current	uA	<200uA at 265Vac 60Hz		
Touch Current (Enclosure Leakage)	uA	<100uA		
Power Factor (115/230Vac)	-	0.99 / 0.95		
Harmonic Compliance	-	Meets IEC61000-3-2 Class A		
No Load Power Consumption	W	<0.5W at 230Vac (Remote off and no load on 5Vsb)		
Hold Up Time (typ) at 115Vac Input	ms	>22ms 400W load, >14ms 600W load		
Efficiency	-	Up to 96%		
Conducted & Radiated EMI	-	EN55032/EN55011-B (See application notes for conditions)		
Immunity	-	Compliant with EN60601-1-2;2015 (Ed4), see immunity table		
Insulation Class	-	Construction suitable for Class I or Class II installation		
Safety Agency Certifications	-	IEC/EN/UL62368-1 (pending), 60950-1 and 60601-1. ES60601-1. CE Mark (LVD, EMC and RoHS)		

Immunity					
Test	Standard	Test Level	Criteria	Notes (the power stated below is total power (main power + fan output))	
ESD	EN61000-4-2	4	A	-	
Radiated Susceptibility	EN61000-4-3	3	А	Includes proximity field requirements of EN60601-1-2:2015	
Electrical Fast Transient Burst	EN61000-4-4	4	А	(AC Port, 5kHz and 100kHz)	
Surge	EN61000-4-5	3	А	-	
Conducted Susceptibility	EN61000-4-6	3	А	-	
Magnetic fields	EN61000-4-8	4	А	-	
		0% for 1/2 cycle	A	-	
	EN61000-4-11	0% for 1 cycle	A/B	A up to 330W, B above 330W	
	Class 3 Industrial,	40% for 10/12 cycles	A/B	A up to 210W, B above 210W	
	incl EN55024	70% for 25/30 cycles	A/B	A up to 500W, B above 500W	
	(100Vac)	80% for 250/300 cycles	A/B	A up to 570W, B above 570W	
		0% for 250/300 cycles	В	-	
		0% for 1/2 cycle	А	-	
	EN61000-4-11	0% for 1 cycle	A/B	A up to 330W, B above 330W	
Voltage Dips and	Class 3 Industrial,	40% for 10/12 cycles	A/B	A up to 570W, B above 570W	
Input Interuptions	incl EN55024	70% for 25/30 cycles	A	-	
	(240Vac)	80% for 250/300 cycles	А	·	
		0% for 250/300 cycles	В	-	
		0% for 1/2 cycle	А	Customer to consider essential performance of end equipment	
	EN60601-1-2:2015	0% for 1 cycle	A/B	A up to 330W, B above 330W	
	(100Vac)	70% for 25/30 cycles	A/B	A up to 500W, B above 500W	
		0% for 250/300 cycles	В	-	
		0% for 1/2 cycle	Α	Customer to consider essential performance of end equipment	
	EN60601-1-2:2015	0% for 1 cycle	A/B	A up to 330W, B above 330W	
	(240Vac)	70% for 25/30 cycles	А	-	
		0% for 250/300 cycles	В	-	
SEMI F47 Line Dip	SEMI F47	-	-	At input voltages > 200Vac	