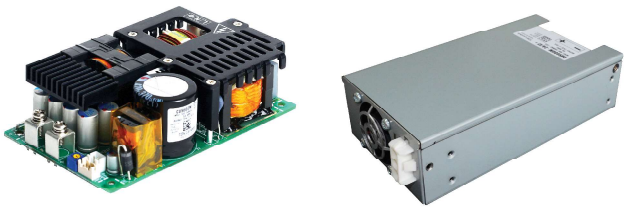
https://product.tdk.com/en/power/cus-m
www.emea.lambda.tdk.com/cus600m

3 x 5” 600W AC-DC Power Supplies



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 be 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

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	/	C

Output voltage 12, 19, 24, 28, 32, 36, 48

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)

* /EF model has /ADJ included
Other options are available, please contact sales

Specifications

Model		CUS600M
Input		
Input Voltage range	V	85 - 265Vac (See derating curves)
Input Frequency	Hz	47 - 63Hz
Input Current (115/230Vac)	A	< 6.0 / 3.0 (600W)
Inrush Current at 230Vac (typ) (Cold Start)	A	<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, 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	A	Includes proximity field requirements of EN60601-1-2:2015
Electrical Fast Transient Burst	EN61000-4-4	4	A	(AC Port, 5kHz and 100kHz)
Surge	EN61000-4-5	3	A	-
Conducted Susceptibility	EN61000-4-6	3	A	-
Magnetic fields	EN61000-4-8	4	A	-
Voltage Dips and Input Interuptions	EN61000-4-11 Class 3 Industrial, incl EN55024 (100Vac)	0% for 1/2 cycle	A	-
		0% for 1 cycle	A/B	A up to 330W, B above 330W
		40% for 10/12 cycles	A/B	A up to 210W, B above 210W
		70% for 25/30 cycles	A/B	A up to 500W, B above 500W
		80% for 250/300 cycles	A/B	A up to 570W, B above 570W
		0% for 250/300 cycles	B	-
	EN61000-4-11 Class 3 Industrial, incl EN55024 (240Vac)	0% for 1/2 cycle	A	-
		0% for 1 cycle	A/B	A up to 330W, B above 330W
		40% for 10/12 cycles	A/B	A up to 570W, B above 570W
		70% for 25/30 cycles	A	-
		80% for 250/300 cycles	A	-
		0% for 250/300 cycles	B	-
	EN60601-1-2:2015 (100Vac)	0% for 1/2 cycle	A	Customer to consider essential performance of end equipment
		0% for 1 cycle	A/B	A up to 330W, B above 330W
		70% for 25/30 cycles	A/B	A up to 500W, B above 500W
		0% for 250/300 cycles	B	-
	EN60601-1-2:2015 (240Vac)	0% for 1/2 cycle	A	Customer to consider essential performance of end equipment
		0% for 1 cycle	A/B	A up to 330W, B above 330W
		70% for 25/30 cycles	A	-
		0% for 250/300 cycles	B	-
SEMI F47 Line Dip	SEMI F47	-	-	At input voltages > 200Vac