Технические характеристики на источники питания AC/DC серии CUS200M

Medical Industrial Test Comm Broadcast

Single Output 200 to 250W Medical & ITE Power Supplies

Features	Benefits
• IEC 60601-1 (2x MOPP) & IEC 60950-1 Approvals	• Suitable for B & BF type Medical and ITE Applications
• 200W Convection cooled rating	• No fan noise, good for noise-sensitive environments
• Low profile (34 mm), Standard 3"x5" format	• Space saving & easy system integration
• 5V Standby power supply on board	• No additional circuitry needed, saves cost
• Operating Altitude up to 5000m	• Supports global use & global sales of equipment
• High Efficiency up to 94 %, Low off-load power consumption (<0.5W)	• Excellent "environmental footprint"

Specification

Model		CUS200M
AC Input Voltage	VAC	85 - 265VAC (1)
Input Frequency	Hz	47 - 63Hz
Inrush Current (cold start)	A	35A at 115VAC, 70A at 230VAC
Power Factor	-	Meets EN61000-3-2 Class A (Typical PF 0.99/0.95) (2)
Input Current (115/230VAC)	A	200W output: 2.2 / 1.1A; 250W output: 3.0 / 1.5A
Off-load Power Consumption (3)	W	<0.5W at 230VAC
Temperature Coefficient	%/°C	<0.02%/°C
Overcurrent Protection	-	12V: >17.5A, 18V: > 14.7A, 24V: > 11A, 48V: > 5.5A
Overvoltage Protection (4)	V	12V: 13.2 - 16.2V, 18V: 19.8 - 24.3V, 24V: 26.4 - 32.4V, 48V: 52.8 - 64.8V
Hold Up Time (115 / 230V input)	ms	16ms at 200W output, 12ms at 250W
Leakage Current	mA	<0.3mA at 265VAC, 60Hz
Remote On/Off	-	Apply voltage to isolated terminals to shut unit down
Power Good	-	Isolated transistor, On = Good. Gives >5ms warning of AC power loss
Standby Voltage	-	5V 0.6A (convection), 1A (forced air)
Operating Temperature	°C	-20°C to +70°C. Derate linearly to 50% load from +50°C to +70°C
Storage Temperature	°C	-40°C to +85°C
Humidity (non condensing)	%RH	10 - 95%RH (Operating & Storage)
Cooling	-	Convection or Forced Air Cooled (1.5m/s across terminals)
Withstand Voltage	-	Input to Ground 2kVAC (1xMOPP), Input to Output 4kVAC (2xMOPPs), Output to Ground 1.5kVAC (1xMOPP) Suitable for B and BF rated medical equipment
Isolation Resistance	Ω	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC
Vibration (non operating)	-	10 - 55Hz: 19.6m/s^2 constant sweep 1 min X, Y, Z for 1 hour
Shock	-	< 196.1 m/s^2 (20G)
Immunity	-	IEC61000-4-2 (lv 2, 3), -3 (lv3), -4 (lv 3), -5 (lv3, 4), -6 (lv 3), -8 (lv 4), -11
Safety Agency Certifications	-	EN/IEC/UL/ES/CSA 60601-1, EN/IEC/UL/CSA60950-1, CE Mark
Conducted & Radiated EMI	-	EN55011-B, EN55022-B, FCC Class B
Weight (Typ)	g	350
Size (LxWxH)	mm	127 x 76.2 x 34
Warranty	yrs	3

Notes:

(1) Derate linearly to 80% load from 115 to 85VAC input
(2) 115 / 230VAC input
(3) Refers to input power during remote off and standby 5V in at no load condition
(4) Cycle AC to reset

Model Selector

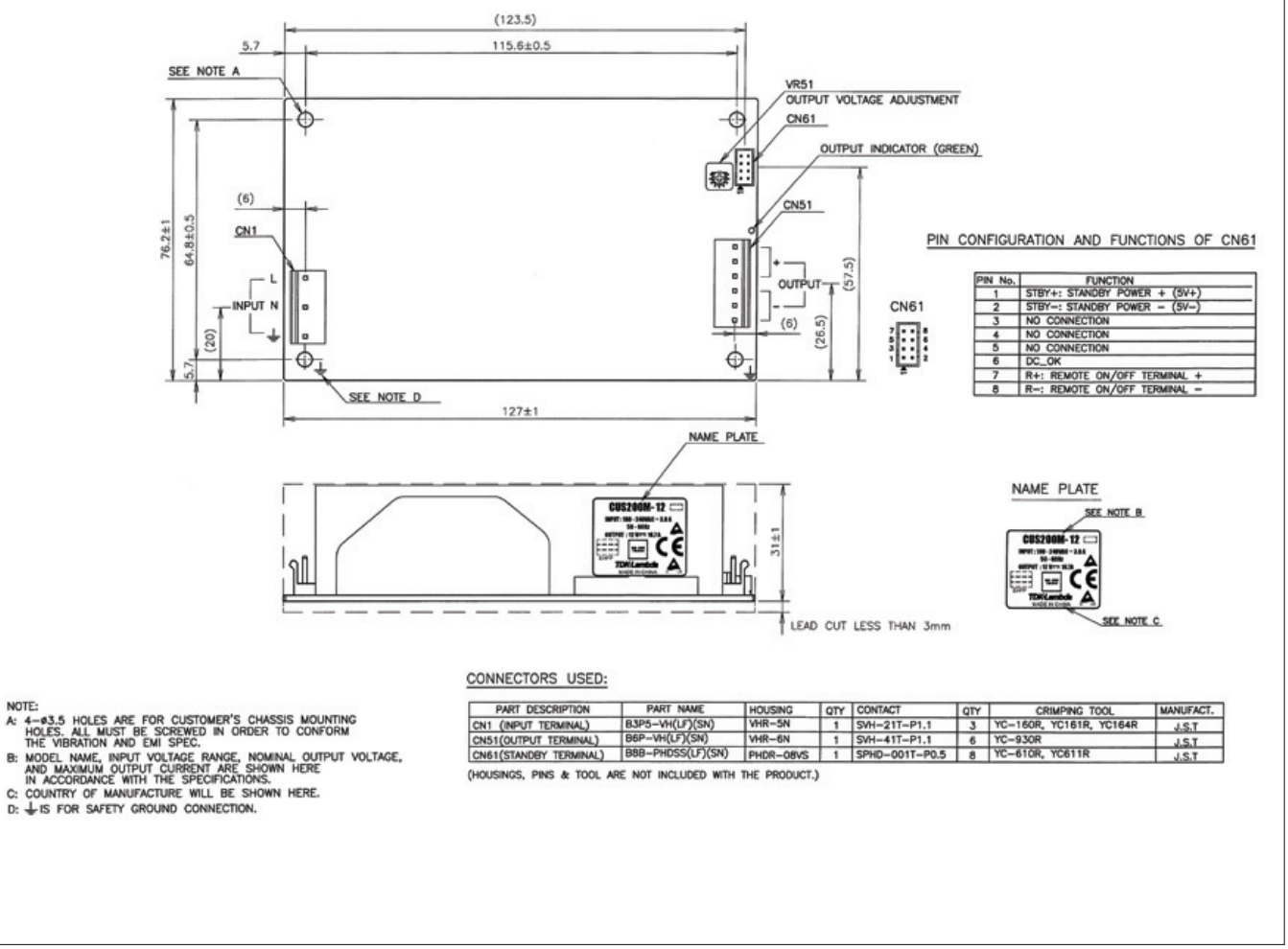
Model	Voltage	Adjust Range (V)	Max Current Conv (A)	Max Current Forced Air (A)	Max Power Forced Air (W)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Efficiency (typical) % (4)
CUS200M-12	12V	11.7 - 12.6	16.7	16.7	200.4	120	60	180	92 / 93
CUS200M-18	18V	17.6 - 18.9	11.2	14.0	252.0	180	90	180	92 / 94
CUS200M-24	24V	23.5 - 25.2	8.4	10.5	252.0	240	120	240	92 / 94
CUS200M-48	48V	47 - 50.4	4.2	5.3	254.4	480	240	480	92 / 94

Notes: (4) 115 / 230VAC input with convection cooling

Options (available on request)

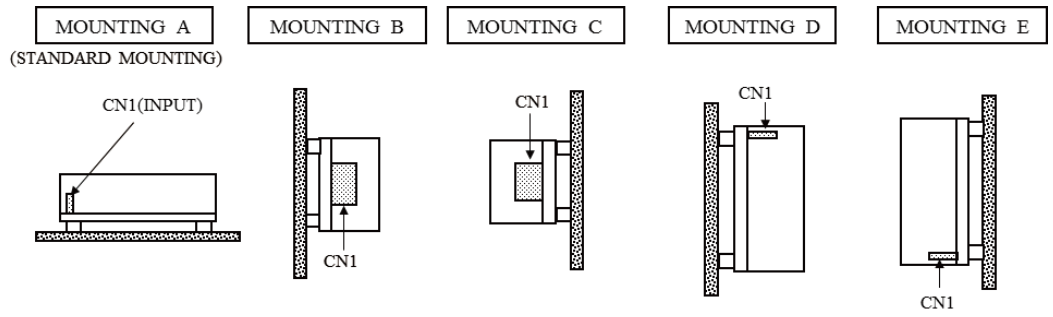
blank	Standard model
Suffix "/A"	Cased model with chassis & cover
Suffix "/L"	L-shaped chassis only, no cover

Outline Drawing CUS200M Series



Notes: For detailed Instruction Manual, Cooling, Reliability Data, Electrolytic capacitor Lifetime data, Application advice like Mounting options, relevant Derating curves etc. please refer to "Technical Downloads" or contact factory for support

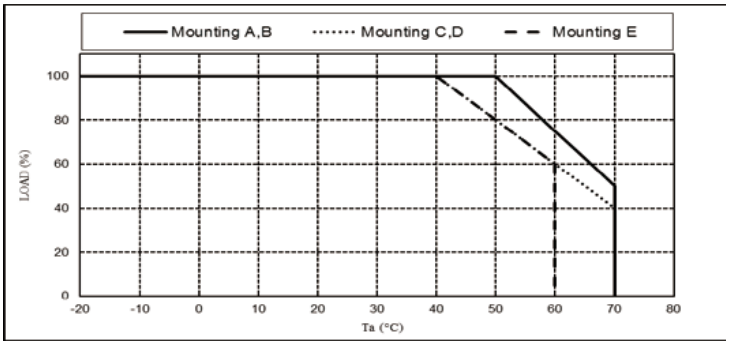
Output Derating according to the Mounting Direction



Output Derating CUS200M-12

MODEL: CUS200M-12

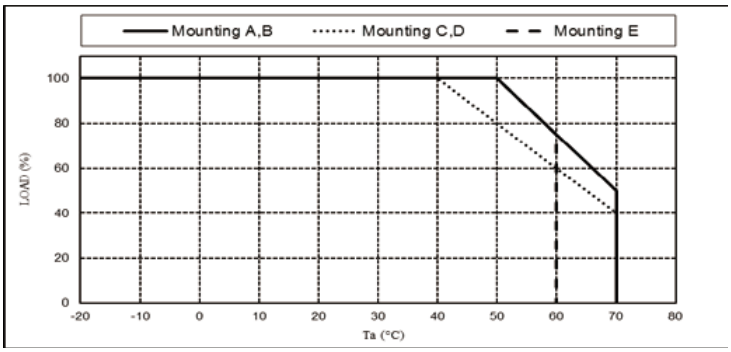
Ta (°C)	MOUNTING A,B	MOUNTING C,D	MOUNTING E (NOTE1)
	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +40	100	100	100
50	100	80	80
60	75	60	60
65	63	50	-
70	50	40	-



Output Derating CUS200M-18, CUS200M-24, CUS200M-48

MODEL: CUS200M-18, CUS200M-24, CUS200M-48

Ta (°C)	MOUNTING A,B	MOUNTING C,D	MOUNTING E (NOTE1)
	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +40	100	100	100
50	100	80	100
60	75	60	75
65	63	50	-
70	50	40	-



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