



Single Output 350W/420W Medical & ITE Power Supplies

Features	Benefits
• IEC60601 3rd Ed. (2x MoPP)	• Suitable for B and BF type medical equipment
• 350W Convection cooled rating	• No fan noise, good for noise-sensitive environments
• Low profile (40 mm)	• Suits 1U applications, saves space
• Low off-load power consumption (<0.5W)	• Better "environmental footprint"
• 5V Aux & 12V fan supply (F-option)	• Embedded features save cost of external circuitry
• Operating altitude up to 5000m	• Supports global use



Specification		
Model	CUS350M/F	
AC Input Voltage	VAC	85 - 265VAC (1)
Input Frequency	Hz	47 - 63Hz
DC Input Voltage	VDC	120 - 370VDC (No safety certification)
Inrush Current (cold start)	A	20A at 115VAC, 40A at 230VAC
Power Factor	-	Meets EN61000-3-2 (Typical PF 0.99/0.95) (2)
Input Current (115/230VAC)	A	4 / 2A (350W output)
Off-load Power Consumption (3)	W	<0.5W at 230VAC
Temperature Coefficient	%/°C	<0.02%/°C
Overcurrent Protection	-	12V: >38A, 18V: > 26A, 24V: > 20A, 36V: > 13, 48V: > 9.7A
Overvoltage Protection (4)	V	12V: 13.8 - 16.2V, 18V: 20.7 - 24.3V, 24V: 27.6 - 32.4V, 36V: 41.4 - 48.6V, 48V: 55.2 - 64.8V
Hold Up Time (115 / 230V input)	ms	20ms at 350W output
Leakage Current	mA	<0.3mA
Remote Sense	-	Yes
Remote On/Off	-	Yes: Apply voltage to isolated terminals to shut unit down
Power Good	-	Yes: Isolated transistor, On = Good
Operating Temperature	°C	-20°C to +70°C Derate linearly to 50% load from 40°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
Withstand Voltage	-	Input to Ground 2kVAC (1xMOPP), Input to Output 4kVAC (2xMOPPs), Output to Ground 1.5kVAC (1xMOPP)*
Isolation Resistance	-	>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, EN60601-1-2:2015 (Ed4)
Safety Agency Certifications	-	IEC/UL/ES/CSA/EN60601-1, IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
Conducted & Radiated EMI	-	EN55011-B, FCC Class B (Radiated Class A)
Weight (Typ)	g	850
Size (LxWxH)	mm	190 x 87 x 40
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 & 12V fan supply at no load conditions
- (4) Cycle AC to reset

* Suitable for B & BF rated medical equipment

Model Selector

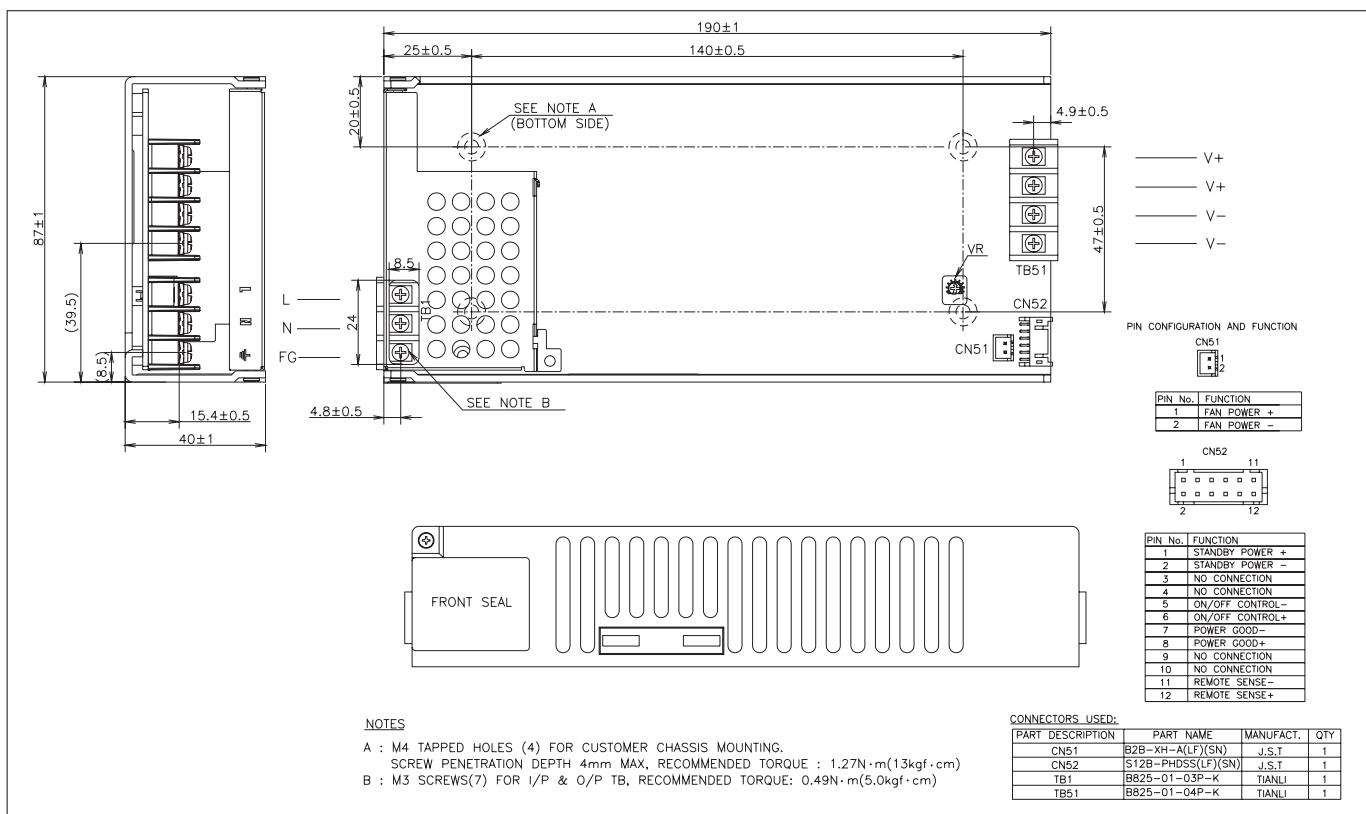
Model	Voltage	Adjust Range (V)	Maximum Current (A) Convection	Maximum Power (W) Convection	Forced Air	Maximum Power (W) Forced Air	Ripple Noise (mV)	Efficiency (typical) % ⁽⁵⁾
CUS350M-12/F	12V	11.4 - 12.6	29.0	348.0	34.5	414.0	120	91 / 93
CUS350M-18/F	18V	17.1 - 18.9	19.4	349.2	23.0	414.0	180	91 / 94
CUS350M-24/F	24V	22.8 - 25.2	14.7	352.8	17.5	420.0	240	91 / 94
CUS350M-36/F	36V	34.2 - 37.8	9.7	349.2	11.5	414.0	360	91 / 93
CUS350M-48/F	48V	45.6 - 50.4	7.3	350.4	8.7	417.6	480	91 / 94

Notes: (5) 115 / 230VAC input. Convection and forced air ratings

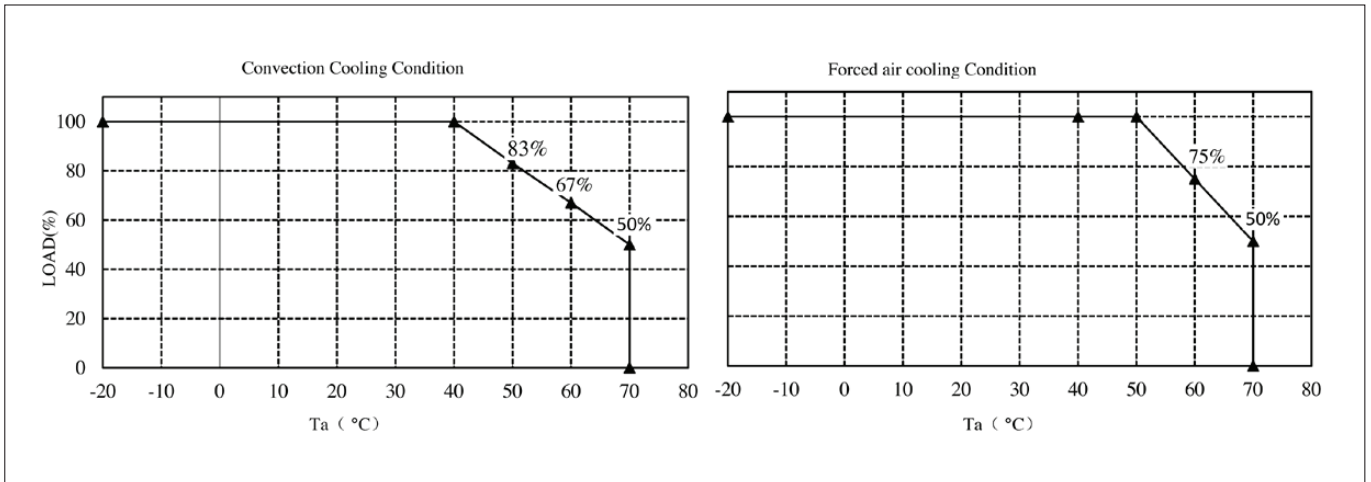
Options (available on request)

Suffix "/F" Fan Supply & Power Good Signal Default model in EMEA

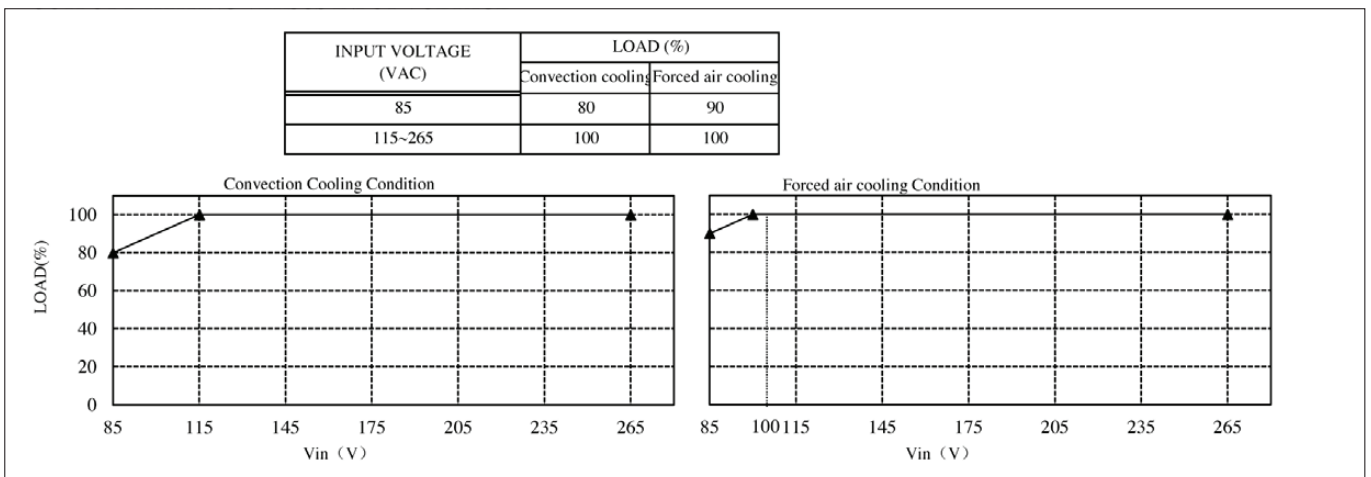
Outline Drawing CUS350M Series



Output Derating Curve



Output Derating versus Input Voltage





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