CUS350M Series

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

Features

- ◆ High Efficiency, up to 94%
- ◆ 1.6" high
- ◆ 350W Convection Cooled, 420W Forced Air Rating
- BF Rated
- ♦ 5V Standby & 12V Fan Output

Key Market Segments & Applications















Specifications								
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)	Α	20A at 115VAC, 40A at 230VAC						
Power Factor	-	Meets EN61000-3-2 (Typical PF 0.99/0.95)(2)						
Input Current (115/230VAC)	Α	350W: 4 / 2A; 420W: 4.5 / 2.3A (typical)						
Off-load Power Draw	W	<0.5W at 230VAC (In standby mode using remote on/off)						
Temperature Coefficient	%/°C							
Overcurrent Protection	-	12V: >38A, 18V: > 26A, 24V: > 20A, 36V: >13A, 48V: > 10A						
Overvoltage Protection (3)	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 typical at 350W output						
Leakage Current	mA	<0.3mA at 265VAC, 60Hz						
Ripple and Noise	%	1%						
Line Regulation	%	0.5%						
Load Regulation	%	1%						
Remote Sense	-	Yes, compensates for 0.5V total cable drop						
Remote On/Off	-	Apply voltage to isolated terminals to shut unit down						
Power Good (/F or /PG option)	-	Isolated transistor, On = Good. Gives >5ms warning of AC power loss						
Standby Voltage	-	5V 0.5A						
Fan Supply (/F or /FN options)	-	12V 0.3A						
Operating Temperature	°C	-20 to +70°C. See derating curves						
Storage Temperature	°C	-40 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) BF Rated						
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	-	EN/IEC/UL/ES/CSA 60601-1, EN/IEC/UL/CSA60950-1, CE Mark						
Conducted & Radiated EMI	-	EN55011-B, FCC Class B (Radiated Class A) 350W output						
Weight (Typ)	g	850						
Size (LxWxH)	mm(in)	190 x 87 x 40mm (7.5 x 3.4 x 1.6")						
Warranty	yrs	Three Years						

Notes:

See specification for conditions and test methods

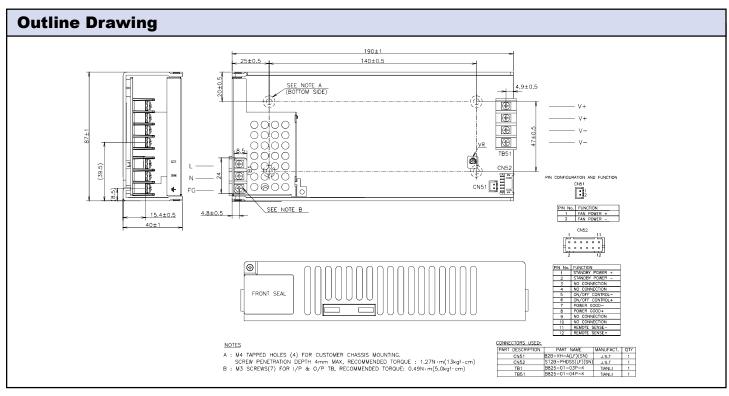
- (1) Derate linearly to 80% load from 115 to 85VAC input (convection); derate linearly to 90% load from 95 to 85VAC (forced air cooling)
- (2) 115 / 230VAC input
- (3) Cycle AC to reset

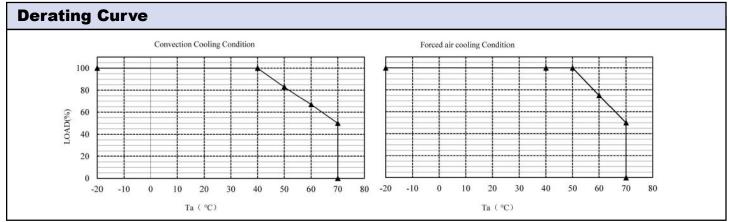
Model Selector										
Model	Voltage	Adjust Range (V)	Max Current (A) Convection	Max Power (W) Convection	Max Current (A) Forced Air	Max Power (W) Forced Air	Ripple Noise (mV)	Efficiency (typ) % ⁽⁴⁾		
CUS350M-12/F	12V	11.4 - 12.6	29.0	348.0	34.5	414.0	120	91 / 93		
CUS350M-18/F	18V	17.1 - 18.9	19.4	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	240	91 / 94		
CUS350M-48/F	48V	45.6 - 50.4	7.3	350.4	8.7	417.6	480	91 / 94		

Notes:

See specification for conditions and test methods

(4) 115 / 230VAC input. Convection and forced air ratings





For Additional Information, please visit https://product.tdk.com/info/en/products/power/index.html

