



Single Output 350W 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 draw (<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 Draw (3)	W	<0.5W at 230VAC
Temperature Coefficient	%/°C	<0.02%/°C
Overcurrent Protection	-	12V: >36A, 18V: > 24A, 24V: > 18A, 48V: > 9A
Overvoltage Protection (4)	V	12V: 13.8 - 16.2V, 18V: 20.7 - 24.3V, 24V: 27.6 - 32.4V, 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) 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
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 (Radiated Class A)
Weight (Typ)	g	850
Size (LxWxH)	mm	190 x 87 x 40
Warranty	yrs	3

Notes:

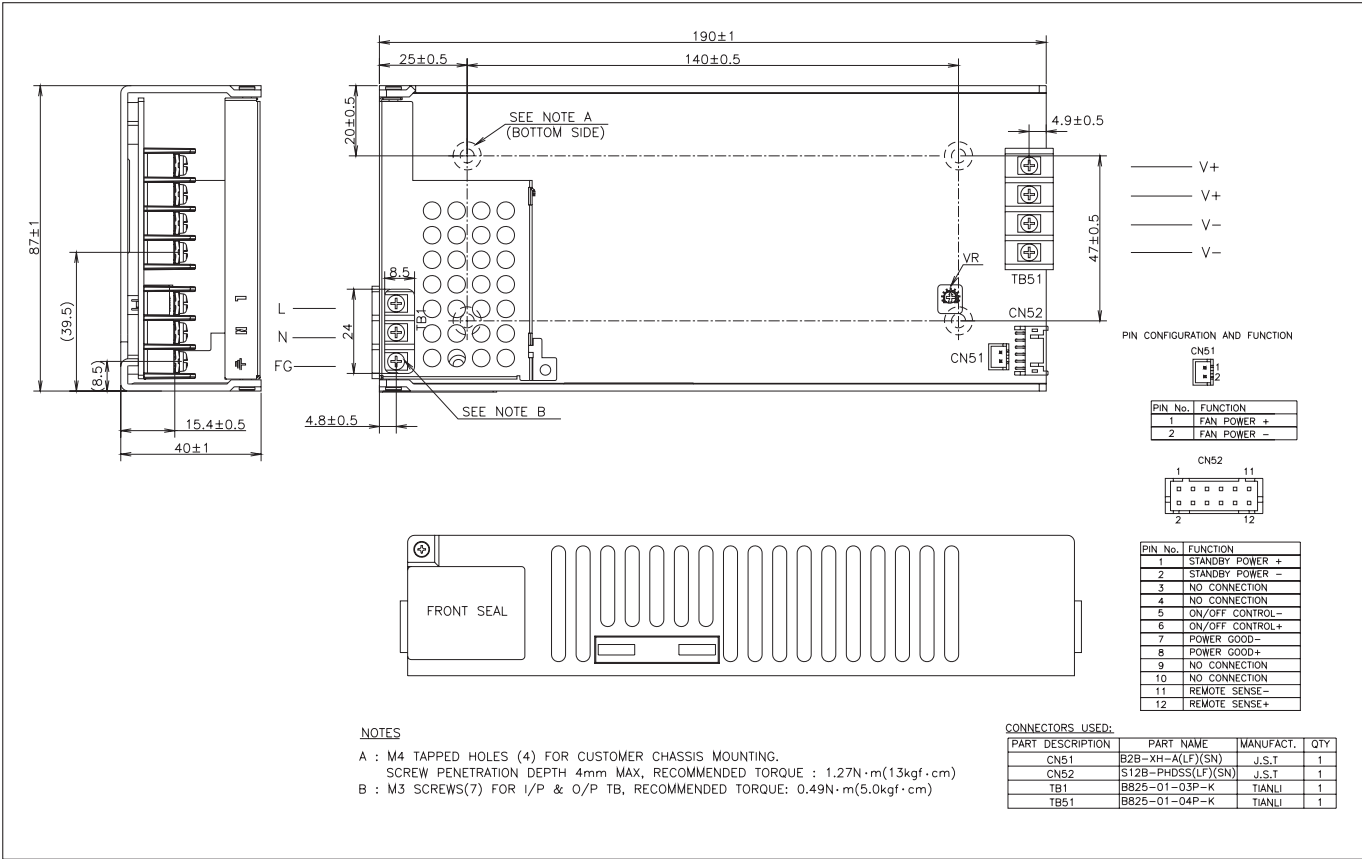
- (1) Derate linearly to 80% load from 115 to 85VAC input
- (2) 115 / 230VAC input
- (3) During Remote off and at no load condition
- (4) Cycle AC to reset

Model Selector

Model	Voltage	Range (V)	Current (A)	Power (W)	Reg (mV)	Reg (mV)	Noise (mV)	Efficiency (typ) % ⁽⁵⁾
CUS350M-12/F	12V	11.4 - 12.6	29.0	348.0	60	48	120	91 / 93
CUS350M-18/F	18V	17.1 - 18.9	19.4	349.2	90	72	180	91 / 94
CUS350M-24/F	24V	22.8 - 25.2	14.7	352.8	120	96	240	91 / 94
CUS350M-48/F	48V	45.6 - 50.4	7.3	350.4	240	192	480	91 / 94

Notes: (5) 115 / 230VAC input. 350W output power

Outline Drawing CUS350M Series





TDK-Lambda France SAS

ZAC des Delaches
CS 41077
9 rue Thuillere
91978 Villebon Courtaboeuf
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.fr.tdk-lambda.com



Italy Sales Office

Via dei Lavoratori 128/130
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com



Netherlands

info@tdk-lambda.nl
www.tdk-lambda.nl



TDK-Lambda Germany GmbH

Karl-Bold-Strasse 40
77855 Achem
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Austria Sales Office

Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Switzerland Sales Office

Bahnhofstrasse 50
8305 Dietlikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@de.tdk-lambda.com
www.de.tdk-lambda.com



TDK-Lambda UK Ltd.

Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
powersolutions@uk.tdk-lambda.com
www.uk.tdk-lambda.com



TDK-Lambda Ltd.

Kibbutz
Givat Hashlosha 48800
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.tdk-lambda.co.il



C.I.S.

Commercial Support:

Tel: +7 (495) 665 2627

Technical Support:

Tel: +7 (812) 658 0463

info@tdk-lambda.ru

www.tdk-lambda.ru

Local Distribution

