



1500W Medical and Industrial Power Supplies

Features	Benefits
• Enclosed Compact Construction	• Easy Installation
• Class B Conducted & Radiated EMI	• Simpler System Filtering
• Variable Speed Fan	• Quieter Operation
• Medical and Industrial Certifications	• Easier System Compliance
• 7 Year Warranty	• Lower Cost of Ownership



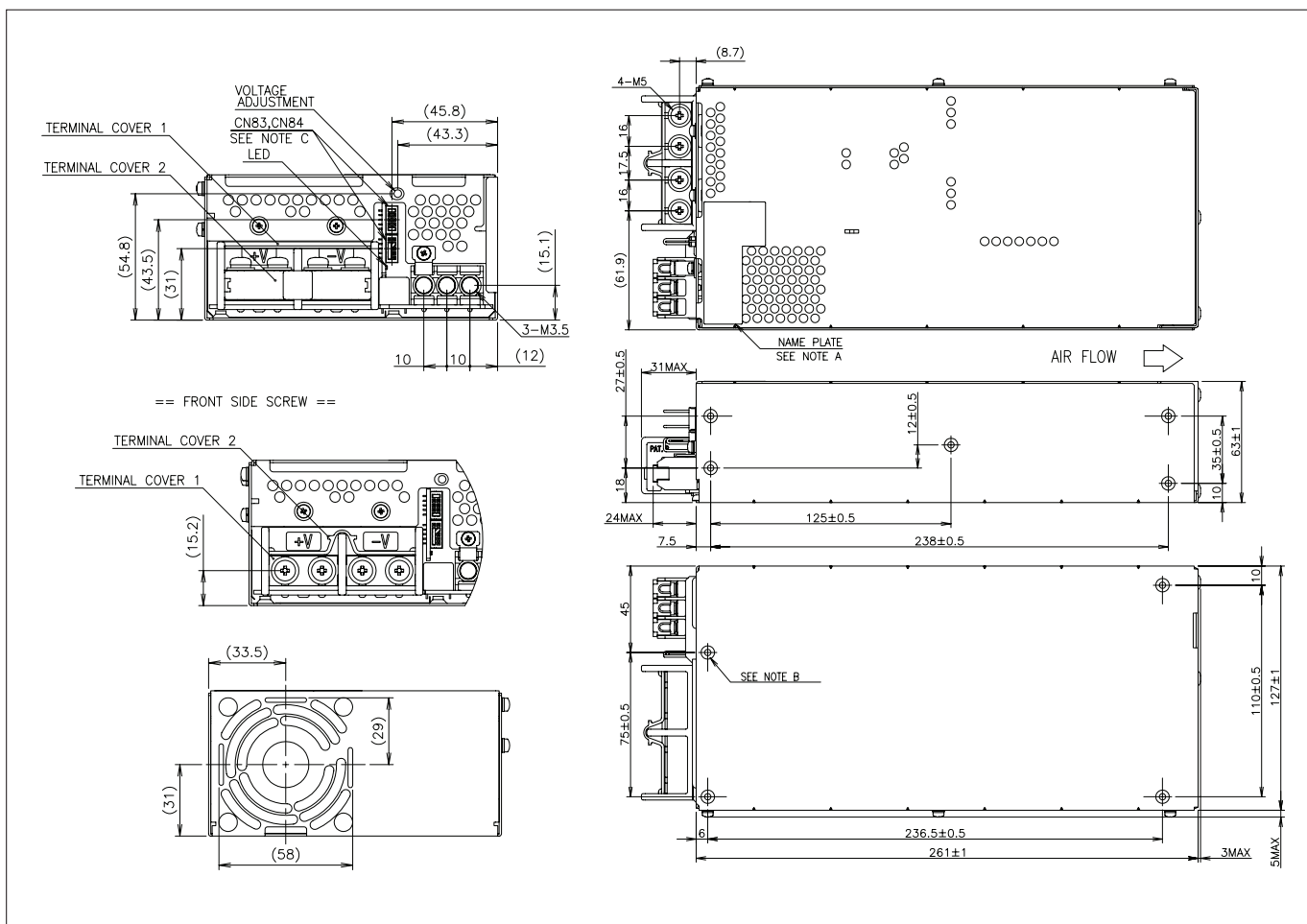
Specification		CUS1500M
Model		CUS1500M
AC Input Voltage range ⁽¹⁾	VAC	85 - 265VAC (47 - 63Hz)
DC Input Voltage range *	VDC	120 - 340VDC*
Inrush Current (100 / 200VAC)	A	60 / 60A
Power Factor (100 / 200VAC)	-	Meets EN61000-3-2 (0.98 / 0.95)
Input Current (115/230VAC) (Typ)	A	16 / 8A
Temperature Coefficient	%/°C	<0.02%/°C
Regulation	-	See Model Selector
Overcurrent Protection	-	>105%, Constant Current Style. After 5s unit will shutdown
Overvoltage Protection	V	125-150% (115-125% for 48V), Cycle AC line to reset
Hold Up Time (Typ at 100% load)	ms	20ms
Leakage Current (max)	mA	<0.3mA
Standby Voltage	A	5V 1A (always on)
Remote Sense	-	Yes
Remote On/Off	-	Yes. Apply external or Standby voltage to enable output voltage
DC Good, Fan Alarm	-	Open collector signal, high on fail
Parallel Operation	-	Yes, up to 5 units
Series Operation	-	Yes
Operating Temperature	°C	-20°C to +60°C, derate linearly to 60% load from 50°C to 60°C Reverse air (/RF): -20°C to +70°C, derate linearly to 50% load from 50°C to 70°C
Storage Temperature	°C	-30°C to +75°C
Operating Humidity (non condensing)	%RH	20 - 90%RH
Storage Humidity (non condensing)	%RH	10 - 90%RH
Cooling	-	Internal variable speed fan, air intake from front. <45dBA noise
Withstand Voltage	VAC	Input to Ground 2kVAC (1xMoPP), Input to Output 4kVAC (2xMoPP), Output to Ground 1.5kVAC (1xMoPP) for 1 min.
Isolation Resistance	MΩ	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC
Vibration (non operating)	-	10 - 55Hz: 19.6m/s ² (sweep 1 min) X, Y, Z for 1 hour
Shock	-	< 196.1 m/s ²
Safety Agency Certifications	-	IEC/ES/EN/CSA60601-1, IEC/UL/EN/CSA60950-1, IEC/UL/EN62368-1 EN62477-1 (OVC III), CE Mark
Line Dips	-	SEMI-F47 (200VAC input)
Conducted & Radiated EMI	-	EN55011 / EN55032-B, FCC Class B, VCCI-B
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8, -11, IEC61000-6-2, IEC60601-1-2 Ed.4
Weight (Typ)	g	3,000g
Size (WxHxD)	mm	127 x 63 x 261mm
MTBF - Telcordia SR-332 issue 3 **	hours	769,670
Warranty	yrs	7

Notes: * Safety certified for AC input only ** 24V output model, 25°C ambient, full load, 230VAC input
(1) Derate linearly to 80% load from 90 to 85VAC input

Model Selector

Model	Voltage (V)	Adjust Range (V)	Max Current (A)	Max Output Power (W)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Efficiency (typ) % 115/230VAC
CUS1500M-12	12	10.2 - 14.4	125	1500	96	48	150	82 / 85
CUS1500M-15	15	12.8 - 18	100	1500	120	60	150	82 / 85
CUS1500M-24	24	20.4 - 28.8	63	1512	144	96	180	85 / 88
CUS1500M-36	36	30.6 - 43.2	42	1512	216	144	250	85 / 88
CUS1500M-48	48	40.8 - 52.8	32	1536	288	192	300	85 / 88

Outline Drawing CUS1500M



Options

Suffix	Description
/SF	Single fuse (live line)
/RF	Reverse Fan (Air exits over input/output terminals)
/CO2	PCB coating



TDK-Lambda France SAS

3 Avenue du Canada
Parc Technopolis
Bâtiment Sigma
91940 les Ulis
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 Giacomo Matteotti 62
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@nl.tdk-lambda.com
www.nl.tdk-lambda.com



TDK-Lambda Germany GmbH

Karl-Bold-Strasse 40
77855 Achern
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@at.tdk-lambda.com
www.de.tdk-lambda.com



Switzerland Sales Office

Eichtalstrasse 55
8634 Hombrechtikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.de.tdk-lambda.com



Nordic Sales Office

Haderslevvej 36B
DK-6000 Kolding
Denmark
Tel: +45 8853 8086
info@dk.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.

1 Alexander Yanai
Segula
Petah-Tikva
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

