



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



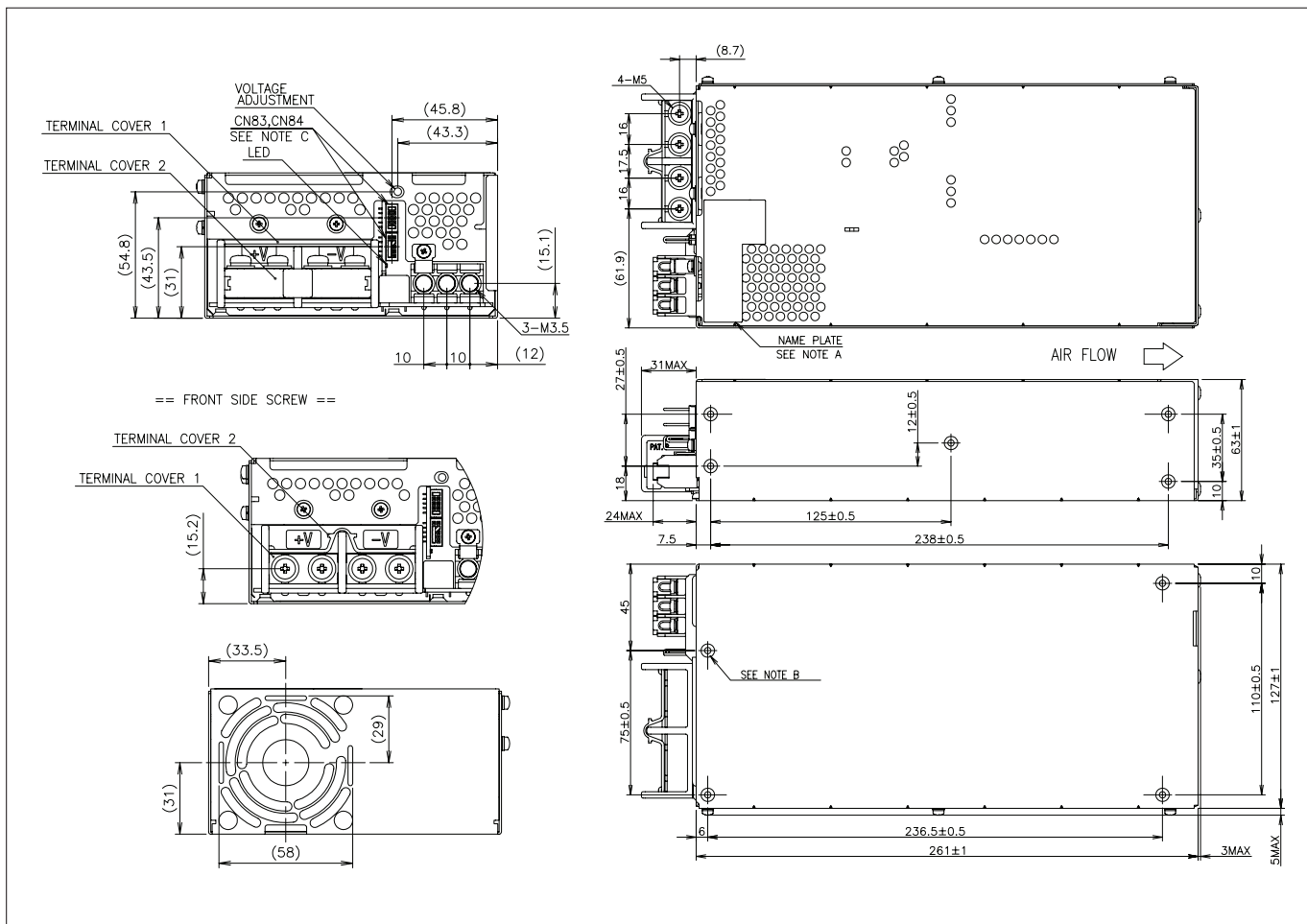
Specification		CUS1500M	
Model		CUS1500M	
AC Input Voltage range ⁽¹⁾	VAC	85 - 265VAC (47 - 63Hz)	
DC Input Voltage range *	VDC	120 - 340VDC*	
Inrush Current (100 / 200VAC)	A	60 / 60A	
Power Factor (100 / 200VAC)	-	Meets EN61000-3-2 (0.98 / 0.95)	
Input Current (115/230VAC) (Typ)	A	16 / 8A	
Temperature 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	
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 (in progress), 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 (contact factory)	Reverse Fan (Air exits over input/output terminals)
/CO2	PCB coating



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