300W Convection / 400W Fan Cooled Medical Power Supplies

Features

- ◆ Medical & ITE Safety Certifications
- ◆ 94% Efficient
- ◆ 0.5W Standby Power
- ◆ Meets ERP/Eco-Design (2009/125/EC)
- ◆ Meets Climate Savers Gold Level
- ◆ 450W Peak Loading (10s)
- ◆ High Power Density (7" x 4" x 1.6")
- ◆ Suitable for 1U applications
- ◆ Five Year Warranty

Key Market Segments & Applications















Specifications								
Model		CFE400M						
Input Voltage range	VAC	85 - 264VAC						
Input Frequency	Hz	47 - 63Hz, 440Hz with reduced PFC						
Inrush Current	Α	<20A at 25°C and 230VAC input, Cold Start						
Power Factor Harmonics	-	EN61000-3-2 Compliant. Class A (Class C >100W output power)						
Voltage Setting Accuracy	%	±1% at 50% Load						
Regulation	%	Line: 0.25%; Load: 1%; Thermal Coefficient: 0.02%/°C						
Ripple & Noise	mV	1% peak-peak						
Efficiency (230VAC, 80% load)	%	94% typical (48V & 24V), 91% (12V), 0.5W power draw in standby mode						
Overcurrent Protection	-	Automatic recovery upon overload removal						
Overvoltage Protection	V	Cycle AC line to reset						
Overtemperature Protection	-	Yes						
Hold Up Time (Typ)	ms	15ms at full load						
Leakage Current (max)	μΑ	140μA 120VAC 60Hz, 280μA 240VAC 60hz, <300μA 240VAC 63Hz (Type Test results)						
Fan Supply	-	12V 0.25A (Not available if the top fan option is selected)						
Standby Voltage	-	5V 80mA or 5V 2A (chosen at time of ordering)						
Remote Sense	-	None						
Signals & Features	-	Remote on/off - Inhibit or Enable operation (chosen at time of ordering)						
		Power Good - High indicates DC output & AC input is good. ORing FET - (Option)						
Operating Temperature (1)	°C	Convection cooled: 0 to +60°C. Derate linearly to 50% load from 40°C to 60°C						
		Forced air cooled: 0 to +70°C. Derate linearly to 50% load from 50°C to 70°C						
Storage Temperature	°C	-40 to +70°C						
Humidity (non condensing)								
Cooling	-	Convection, internal fan or external 1.5m/s forced air, approx. 12 CFM (see oper. temp						
Isolation	-	Input to Ground 1500VAC, Input to Output 4kVAC (Reinforced), Output to Ground 1500VAC						
Vibration (non operating)	-	2G, 10-500Hz in all 3 planes. MIL-STD-810E, Method 514.4, Pro I, Cat 1, 9						
Shock	-	30G per IEC68-2-27, MIL-STD-810E/F, Method 516.5, Pro I, IV, VI						
Safety Agency Certifications (2)	-	IEC/UL/EN/CSA22.2 60601-1, IEC/UL/EN 61010-1, IEC/UL/EN/CSA22.2 No 60950-1, CE for LVE						
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11, -12, -14						
Conducted Emissions and Flicker -		EN55011, EN55022 Class B (per CISPR.11/22), EN61000-3-3						
Radiated Emissions		EN55011, EN55022 Class B (per CISPR.11/22)						
Weight (open frame) k		U Channel: 0.71kg, Top fan: 0.86kg						
Size in		U channel: 7 x 3.94 x 1.6, With cover: 7 x 3.94 x 2, Top Fan: 7 x 3.94 x 2.8						
Warranty	yrs	Five Years						

^{(1) -20°}C cold start

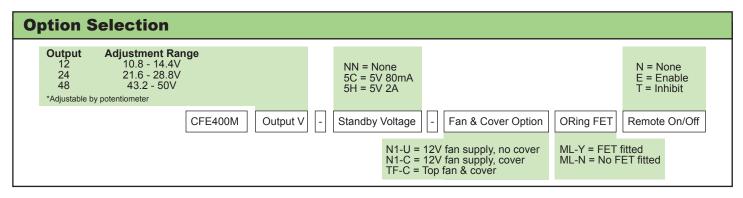
⁽²⁾ Designed to meet IEC/EN/UL/CSA 61010-1 Edition 2

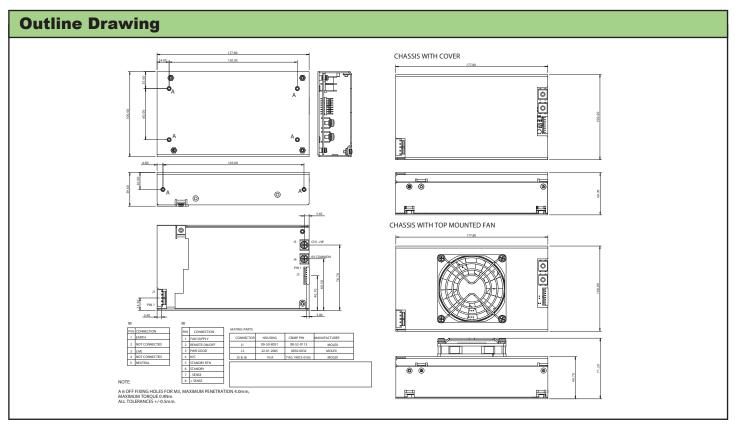
CFE400M Series

Model Selector (Standard Models*)								
Product Code	Part Description	Style	Output Voltage	Current (Convection)	Current (Forced Air or Fan)	Peak Output Current (2)		
U7Y0010	CFE400M-12-5H-N1-UML-NT	U Chassis	12V	25A	33.3A	37.5A		
U7Y0043	CFE400M-12-5H-TF-CML-NT	Cover & Top Fan	12V	-	33.3A	37.5A		
U7Y0269	CFE400M-24-5H-N1-UML-NT	U Chassis	24V	12.5A	16.67A	18.75A		
U7Y028C	CFE400M-24-5H-TF-CML-NT	Cover & Top Fan	24V	-	16.67A	18.75A		
U7Y027B	CFE400M-48-5H-N1-UML-NT	U Chassis	48V	6.25A	8.33A	9.375A		
U7Y029D	CFE400M-48-5H-TF-CML-NT	Cover & Top Fan	48V	-	8.33A	9.375A		

Notes:

- (*) Additional variants available, see Option Selection below.
- (2) For up to 10s without exceeding Average Output Power rating (300W convection, 400W with forced air or fan)





Other TDK-Lambda Products EFE Series 300 to 400W 1U single output power supply CSS Series 65 to 500W 1U single output power supply NV Series 175 to 900W 1U power supply 1-8 outputs

For Additional Information, please visit us.tdk-lambda.com/lp/products/cfe-series.htm

