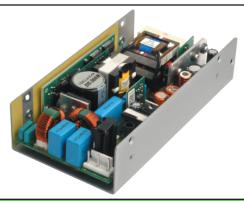
TDK-Lambda

EFE300M Series



300W 3 x 6" Power Supplies

- ◆ Medical Safety Certifications (BF Rated)
- ◆ Fully Featured including ORing Diode
- Universal Input (90 264VAC)
- ◆ 400W Peak Loading (10s)
- Suitable for 1U applications

Key Market Segments & Applications

Medical

Instrumentation

Network servers and routers

Features and Benefits

Feature

- ◆ Full Digital Control
- ◆ High Efficiency
- ◆ Low Profile
- Reinforced Isolation (4kVAC input to output)

Benefit

- ◆ Improved product performance
- ◆ Less heat dissipated in system
- ◆ Fits in 1U enclosures
- ◆ Suitable for medical applicaitons

,								
Specifications								
		EFE300M						
ITEMS								
Input Voltage range	-	90 - 264VAC, 120 - 350VDC						
Input Frequency	-	45 - 63Hz, 440Hz with reduced PFC						
Inrush Current	Α	<40A at 25C and 230VAC input, Cold Start						
Power Factor Harmonics	-	EN61000-3-2 Compliant (0.97 typical)						
Voltage Setting	-	Setting: -5% to +10% (Chosen at time of ordering), Accuracy: +/-1% at 50% Load						
Total Regulation	-	< 4% with 90 - 264VAC input change and 0-100% load change						
Ripple & Noise	mV	< 1% peak-peak						
Efficiency	-	90% typical						
Overcurrent Protection	-	Automatic recovery upon overload removal						
Overvoltage Protection	V	Cycle AC line to reset						
Overtemperature Protection	-	Yes						
Hold Up Time (Typ)	ms	>16ms at 90VAC input, 75% load						
Leakage Current (max)	υA	123uA 120VAC 60Hz, 257uA 240VAC 60Hz, <300uA 264VAC 63Hz (Type Test results)						
Fan Supply	-	12V 1A (Available if no fan option selected)						
Standby Voltage	-	5V 2A or 12V 1A (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 supply is good. ORing FET - Allows redundant connection of supplies						
Operating Temperature (2)	-	0 to +70°C. Derate linearly to 50% load from 50°C to 70°C						
Storage Temperature	-	-40 to +85°C						
Humidity (non condensing)	-	5 - 95% RH						
Cooling	-	Forced air, 2m/s from input to output						
Isolation	-	Input to Ground 2.3kVDC, Input to Output 4kVAC, Output to Ground 1500VAC						
Vibration (non operating)	-	2G, 10-500Hz (sweep & endurance at resonance) in all 3 planes.						
		MIL-STD-810E, Method 516.5, Pro I, IV, V						
Shock	-	30G per IEC68-2-27, MIL-STD-810E, Method 514.4, Pro I, Cat 1, 9						
Safety Agency Approvals	-	IEC60601-1, UL60950-1, CSA22.2 No 60950-1, EN60950-1, EN61010-1, IEC61010-1, CE for LVD						
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11, -12, -14						
Conducted Emissions and Flicker	-	EN55011, EN55022 Class B (per CISPR11/.22), EN61000-3-3						
Radiated Emissions	-	EN55011, EN55022 Class B (per CISPR.11/22)						
Weight (open frame or enclosed)	g	405g or 635g						
Size (Open frame style) (1)	mm	3 x 6 x 1.34"						
Warranty	yrs	Three Years						

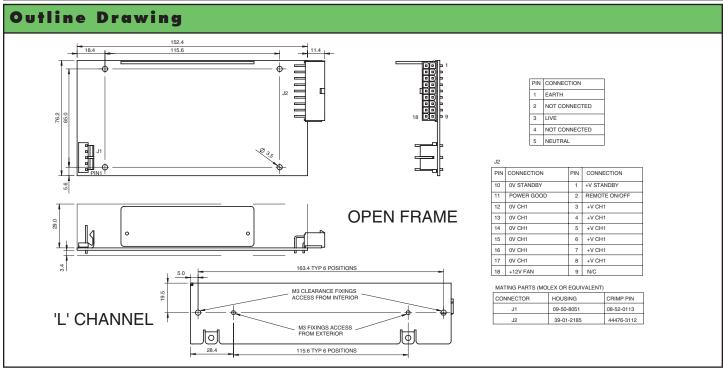
⁽¹⁾ Including underside component leads

EFE300M Series

Model Selector									
Product	Part Description	Output	Output	Average Output	Peak Output	Peak Output			
Code	(Open Frame Version)	Voltage (V)	Current (A)	Power (W)	Current (A)(3)	Power (W)(3)			
U5Y0031	EFE300M12-5-ECMDL-YT	12	25	300	33.3	400			
U5Y0020	EFE300M12-5-HNMDL-YT	12	25	300	33.3	400			
U5Y0064	EFE300M24-5-ECMDL-YT	24	12.5	300	16.7	400			
U5Y0053	EFE300M24-5-HNMDL-YT	24	12.5	300	16.7	400			

⁽³⁾ For up to 10s without exceeding Average Output Power rating

Options								
Part Description Suffix	Standby "5" or "12"	L Bracket	Cover	Internal Fan	Enable or Inhibit "E" or "T"			
-5-ECMDL-YT	5V 2A	Υ	Υ	Υ	Inhibit			
-5-HNMDL-YT	5V 2A	Ν	Ν	Ν	Inhibit			



Other Lambda Industrial Products

EFE300-400 300 to 400W 1U single output power supply NV Series 175 to 900W 1U power supply 1-6 outputs ZPSA 40 to 60W 2 x 4" single output power supplies ZWS/ZWSPAF 5 to 240W single output power supplies

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