DLP240 Specifications

ITEMS	S/UNITS MO	DEL	DLP240-24-1
Input	Voltage Range (*2)	V	AC85 - 265 or DC120 - 370
	Frequency (*2)	Hz	47-63
	Power Factor (typ) (*1)		0.99 / 0.95
	Efficiency (100/230VAC)(typ)(*1)	%	82 / 86
	Current (100/230VAC)(typ)(*1)	Α	3.0 / 1.3
	Inrush Current (100/230VAC)(typ) (*3)	Α	20 / 45, Ta=25°C, cold start
	Leakage Current (*9)	mA	Less than 0.75
Output	Nominal Voltage	VDC	24
	Maximum Current	Α	10
	Maximum Power	W	240
	Maximum Line Regulation(*4)(*5)	mV	120
	Maximum Load Regulation(*4)(*6)	mV	192
	Temperature Coefficient		Less than 0.05%/°C
	Maximum Ripple & Noise (0≤Ta≤60°C) (*4)	mVp-p	240
	Maximum Ripple & Noise (-10≤Ta<0°C)(*4)	mVp-p	360
	Hold-up Time (100/230VAC)(*1)		20 / 30
	Voltage Adjustable Range	VDC	21.6 - 28
Function	Over Current Protection (*7)	Α	>10.5
	Over Voltage Protection (*8)	V	30.0 - 35.0
	Parallel Operation		-
	Series Operation		Possible
Environment	Operating Temperature (*10)	င	85VAC - 170VAC : -10 to +60, Convection: -10 to +50 (100%); 60 (60%)
			170VAC - 265VAC : -10 to +70, Convection: -10 to +55 (100%); 70 (60%)
	Storage Temperature	°C	- 30 to +85
	Operating Humidity	%RH	30 - 90 (No dewdrop)
	Storage Humidity	%RH	10 - 95 (No dewdrop)
			At no operating and with DIN RAIL
	Vibration		10~55Hz (sweep for 1min) 9.8m/s² constant, X, Y, Z each 1hour
	Shock (In package)		Less than 196m/s²
	Cooling		Convection cooling
Isolation	Withstand Voltage		Input - Output : 3.0kVAC, Input - FG : 2.0kVAC (20mA) for 1min
			Output - FG : 500VAC (100mA) for 1min.
	Isolation Resistance		More than $100M\Omega$ at Ta=25°C and $70\%RH$, Output - FG : $500VDC$
Standards	0.6.4.00		Approved by UL60950-1, CSA C22.2 No.60950, EN60950-1, UL508,
	Safety Standards		CSA C22.2 No.14-M95, EN50178 CATEGORY III (Primary), Built to meet DENAN
	PFHC		Built to meet IEC61000-3-2
	EMI		Built to meet VCCI-B, FCC-ClassB, EN55011/EN55022-B
	Immunity		Built to meet IEC61000-6-2 (IEC61000-4-2,-3,-4,-5,-6,-8,-11)
Mechanical	Weight (typ)	g	1000
		mm	
1echanical	Weight (typ) Size (W x H x D)	g mm	1000 120 x 97 x 110 (Refer to outline drawing)

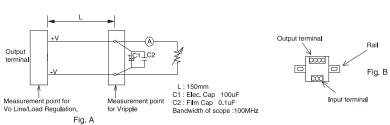
- (*1) At 100/230VAC and maximum output power, Ta=25 $^{\circ}\text{C}$.
- (*2) For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100-240VAC, 50/60Hz on
- (*3) Not applicable for the in-rush current to Noise Filter for less than
- (*4) Please refer to Fig A for measurement of line & load regulation and output ripple voltage. (Measure with JEITA RC-9131 probe.)
- (*5) 85-265VAC, constant load.
- (*6) No load full load (maximum power), constant input voltage.
- (*7) Constant current limit with automatic recovery. Avoid to operate at overload or dead short for more than 30 sec-
- (*8) OVP circuit will shutdown output, manual reset. (Re power on.)
- (*9) Measured by each measuring method of UL, CSA, EN and DENAN
- (*10) At standard mounting method, Fig B.
 - Load(%) is percent of maximum output load (Item2 and 3), do not exceed derating in both maximum output current and power.
 - For standard mounting, refer to derating curve.

■ Recommended EMC Filter



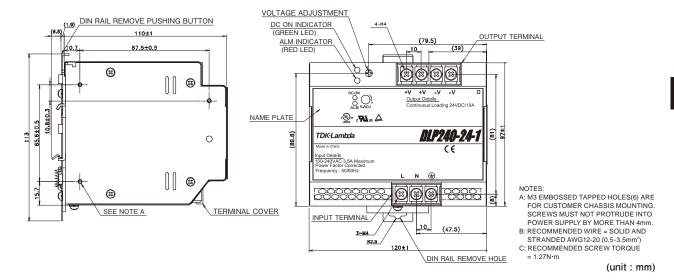
RSEN-2006

Please refer to "TDK-Lambda EMC Filters" catalog.

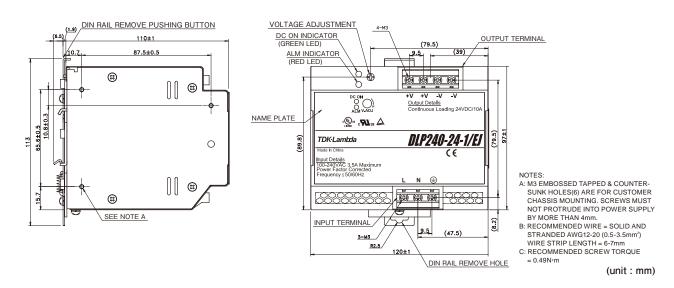


Outline Drawing

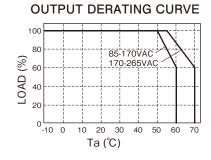
[DLP240] (Block Terminal)

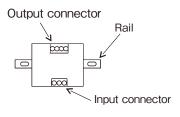


[DLP240/EJ] (European Terminal)



Output Derating





STANDARD MOUNTING