

- Low Cost
- 3 Year Warranty
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- Semi F47 Compliant (DLP180&240 only)
- Convection Cooled
- Conducted and Radiated EMI, Class B
- Input Transient Protection, IEC61000-4
- NEC Class 2 Compliant (DLP75&100/C2 models only)

DLP Series

75 to 240W, 24V Output
DIN Rail Mount Power Supply

Key Market Segments & Applications

Industrial Controls: Motor Control Systems
Factory Automation: Process Control, Automotive, Chemical Processing
Test & Measurement: Burn in & Test, Instrumentation Measurement

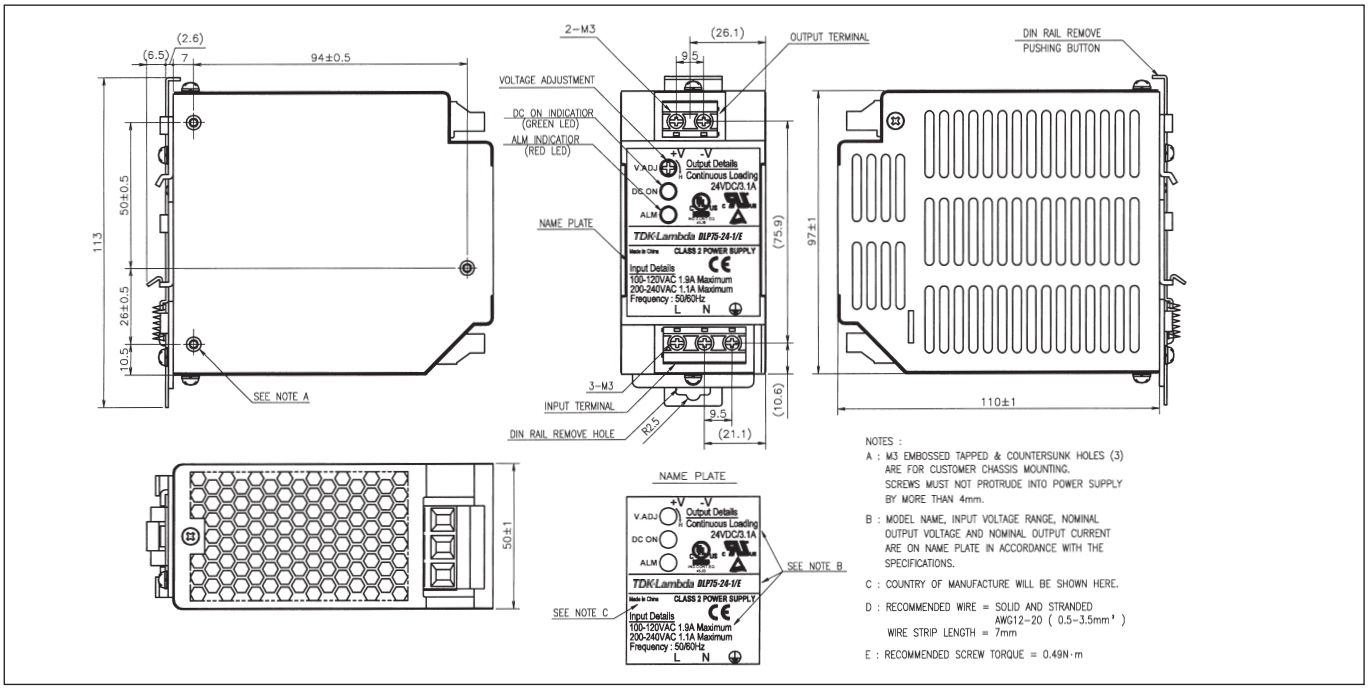
DLP Features and Benefits

Features	Benefits
• PFC Compliant to EN61000-3-2	• Supports Global Use
• UL508 Approvals	• Enables System Certification
• 3 Year Warranty	• Fix & Forget

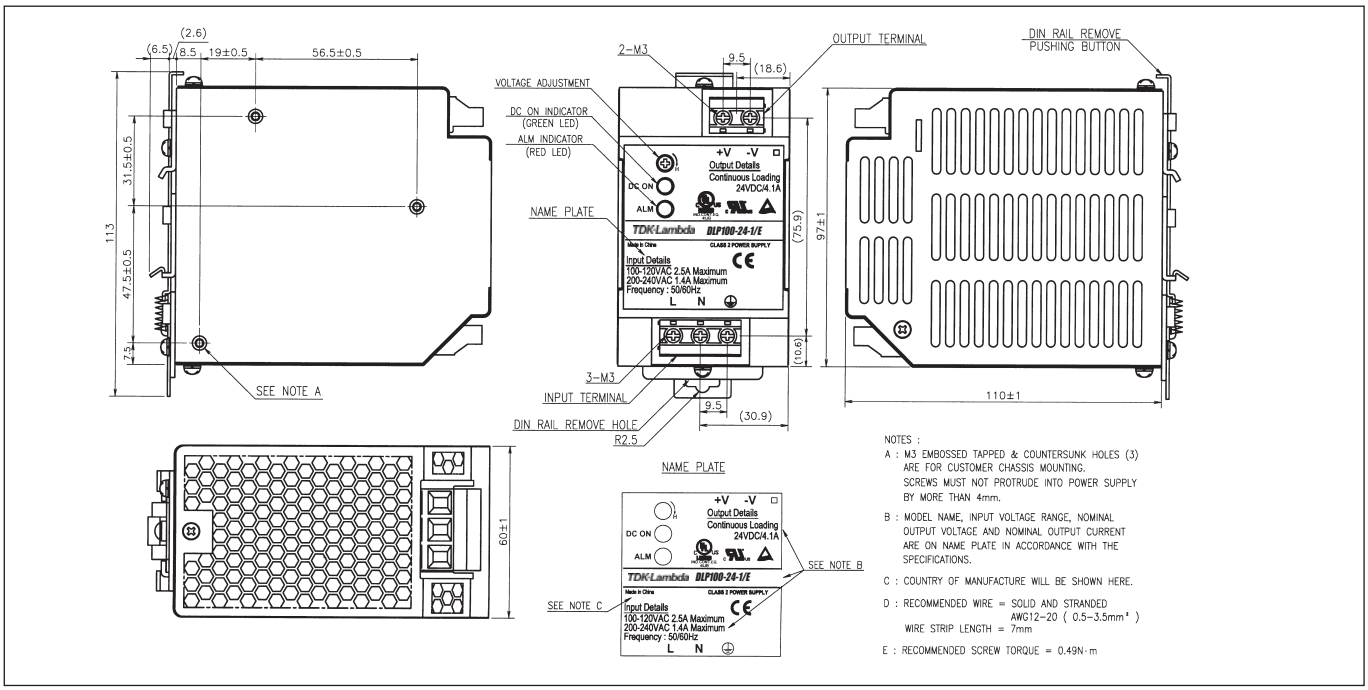
Specifications

ITEMS	MODELS		DLP75-24-1/E DLP75-24-1/C2EJ	DLP100-24-1/E DLP100-24-1/C2EJ	DLP120-24-1/E	DLP180-24-1/E	DLP240-24-1/E
Output Voltage		V	24	24	24	24	24
Output Current (/C2 models)		A	3.1 (2.5)	4.1 (3.7)	5.0	7.5	10
Output Power (/C2 models)		W	75 (60)	98.4 (88.8)	120	180	240
Output Voltage Adjustment		V	21.6 - 28 (fixed for /C2 models)				
Load Regulation		mV	192				
Line Regulation		mV	120				
Ripple/Noise (0-60°C)		mV	240				
AC Input Voltage & Frequency		-	85-132/170-265VAC, 47-63Hz Auto select			85-265VAC (47-63Hz) or 120-370VDC(1)	
Input Current 100/230VAC		A	1.7/0.8	2.3/1.2	2.4/1.3	2.3/1.0	3.0/1.3
	/C2	A	1.4/0.7	2.0/1.0		-	
Efficiency 100/230VAC		%	81/83	82/85	83/85	84/87	82/86
Power Factor		-	Meets EN61000-3-2 (DLP180, 240: >0.95)				
Inrush Current(Typ)100/230VAC		A	20/45				
Leakage Current		mA	Less than 0.75				
Hold-up Time 100/230VAC		ms	20/30 (Semi F47 Compliance, DLP 180 & 240 only)				
Overcurrent Protection		-	>105%,Fold Back		>105%, Constant Current		
	/C2	-	~2.6A	~3.75A	-		
Overvoltage Protection		-	30-35V, latching, cycle AC line to reset (26-30V DLP75-24-1/C2EJ)				
LED Indicators		-	Green LED = DC ok Red LED = overcurrent				
Operating Temperature	(2)	°C	Convection cooled, -10 to 60, derate linearly to 60% load from 50 to 60				
Storage Temperature		°C	-30~+85				
Humidity (Non-Condensing)		%RH	30-90% operating 10-95% non operating				
Withstand Voltage		-	Input - Ground 2kVAC, Input to Output 3kVAC, Output - Ground 500VAC				
Vibration		-	9.8m/s² (1.0G) at DIN rail; (10-55Hz: 9.8m/s² Constant, X,Y, Z each 1 hour)				
Shock		-	196m/s² (20G)				
Safety Agency Approvals		-	UL508, NEC Class 2(3) (/C2 models), UL60950, CSA60950, EN60950, CE, EN50178 Cat III (Pri)				
Conducted EMI		-	FCC-B, EN55011/EN55022-B, VCCI-B; Meets IEC61000-4-1				
Radiated EMI		-	EN55011/EN55022-B, FCC-Class B, VCCI-B				
ESD		-	IEC61000-4-2 ±10kV (Air), ±5kV (Contact)				
Radiated RFI		-	IEC61000-4-3 80-1000MHz,12V/m 80% AM 1kHz				
Fast Transient Burst		-	IEC61000-4-4 2.4kV 5kHz				
Lightning Surge		-	IEC61000-4-5 4.4kV, 1.2x50µs (Common Mode) 2.4kV 1.2x50µs (Normal)				
Conducted RFI		-	IEC61000-4-6 150kHz-80MHz, 12V, 80% AM 1kHz				
Magnetic Field		-	IEC61000-4-8 36A/m				
Voltage Dips		-	IEC61000-4-11 70% 10ms, 40% 100ms, 0% 5s				
Size		mm	50 x 97 x 110	60 x 97 x 110	60 x 97 x 110	80 x 97 x 110	120 x 97 x 110
Weight		g	470	540	540	780	1000
Warranty		-	3 Years				

Outline Drawing DLP75 Series



Outline Drawing DLP100/120 Series





Also available DLP-PU parallel unit for redundancy

Notes: (1) DC input is not safety approved

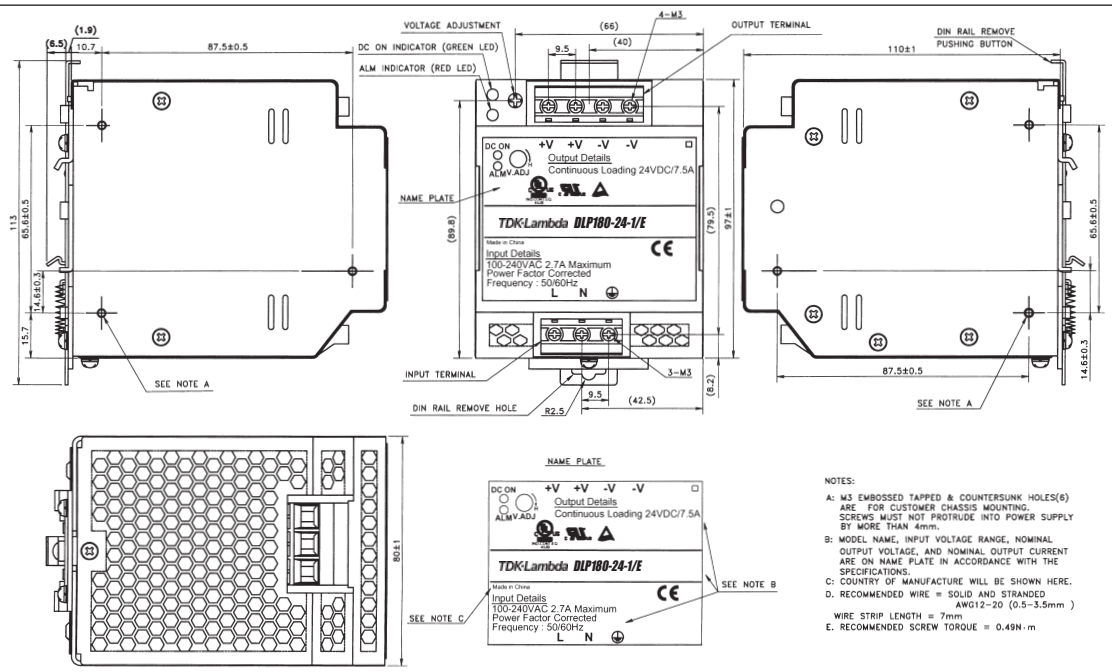
(2) **DLP240-24-1/E**: 170-265VAC: -10°C~+70°C, derated linearly to 60% load from 50° to 70°C.

DLP75-24-1/C2EJ: -10°C~+70°C, derated linearly to 75% load from 50° to 60°C.

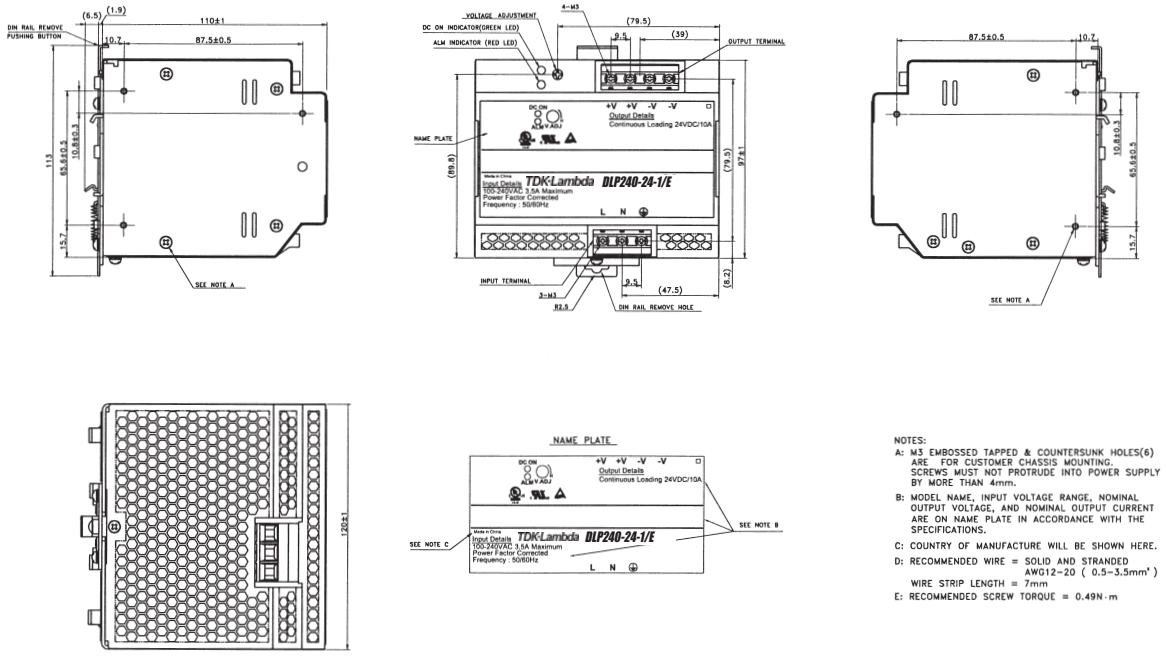
DLP100-24-1/C2EJ: -10°C~+70°C, derated linearly to 80% load from 50° to 60°C.

For full data and drawings please visit www.emea.tdk-lambda.com/www/dlp

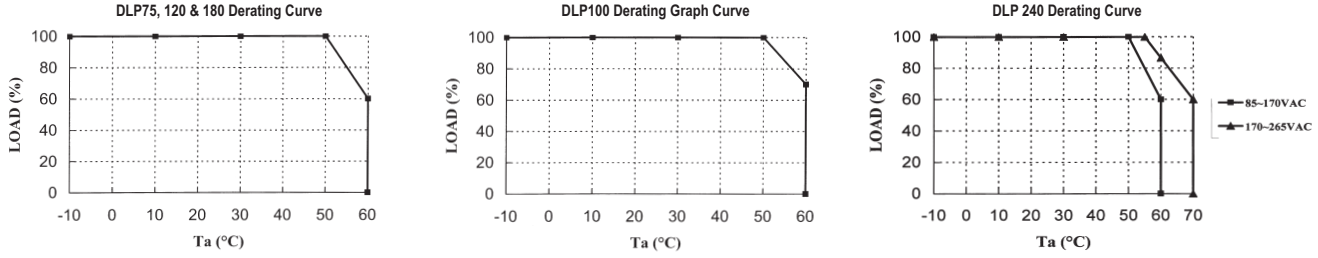
Outline Drawing DLP180 Series



Outline Drawing DLP240 Series



Derating Curve DLP



TDK-LAMBDA EMEA www.emea-tdk-lambda.com



TDK-Lambda France SAS
ZAC des Delaches
BP 1077-Gometz-le-Chatel
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



TDK-Lambda Germany GmbH
Karl-Bold-Strasse 40
77855 Achern
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.emea.tdk-lambda.com



TDK-Lambda Italy S.r.l.
Via dei Lavoratori 128/130
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



TDK-Lambda Austria Sales Office
Aredstrasse 22
2544 Leobersdorf
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info.germany@de.tdk-lambda.com
www.emea.tdk-lambda.com



TDK-Lambda Scandinavia Sales Office
PO Box 546
Rallarvägen 41
184 40 Åkersberga
Sweden
Tel: +46 854 084 990
Fax: +46 854 066 096
info.germany@de.tdk-lambda.com
www.emea.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



Nemic Lambda Ltd.
Kibbutz Givat
Hashlosha 48800
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@nemic.co.il
www.nemic.co.il



TDK-Lambda Americas Inc.
Low Power
3055 Del Sol Blvd
San Diego CA 92154
USA
Tel: +1 800-LAMBDA-4 or 1-800-526-2324
Tel: +1 619-575-4400
Fax: +1 619-429-1011
www.us.tdk-lambda.com/lp/

High Power
405 Essex Road Neptune NJ 07753
USA
Tel: +1 732 922 9300
Fax: +1 732 922 1441
www.us.tdk-lambda.com/hp/



TDK-Lambda Corporation
5F Dempa Bldg. 1-11-15
Higashi-Gotanda
Shinagawa-Ku
Tokyo 141-0022
Japan
Tel: +81 3 3447 4693
Fax: +81 3 3447 4750
www.tdk-lambda.com

LOCAL DISTRIBUTION

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