



Industrial



Test

120W - 480W Single Output DIN Rail Mount Power Supplies



Features	Benefits
• High Efficiency	• Saves Energy & Cost
• Narrow Width	• More Space in Control Equipment
• Curve B, Conducted & Radiated EMI	• Easier System Integration
• Up to 7 Year eCap-Life	• Prolonged Lifetime Expectation

Specification				
Model		DRB120-24-1	DRB240-24-1	DRB480-24-1
Input Voltage Range ⁽¹⁾	VAC	85 - 265 (withstands 300VAC for 5s)		90 - 264
Input Frequency	Hz	47 - 63		
Inrush Current (Cold Start)	A	55A (Typical at 230VAC)		<40A (at 264VAC)
Power Factor (115/230VAC) ⁽²⁾	-	0.98 / 0.92		0.98 / 0.96
Input Current (115/230VAC)	A	1.2 / 0.7	2.4 / 1.4	5 / 2.5
Leakage Current 264VAC 63Hz	mA	<1		<1.7
Line Regulation	%	<0.1		
Load Regulation	%	<1		
Ripple and Noise	mV	<1		
Temperature Coefficient	%/°C	<±0.02		
Overcurrent Protection	A	>6.06	>12.12	21 - 29
Overvoltage Protection ⁽³⁾	V	30 - 35	30 - 35	30V ±2%
Overtemperature Protection	-	Yes		
Hold Up Time	ms	20	20	>16
No-load Power Consumption	W	<1	<1.5	<5
Efficiency (120 / 230VAC)	%	See Model Selector		
Average efficiency (230VAC)	%	>87		
LED Indicator	-	Green LED = DC is OK		
DC OK Signal	-	Optocoupler; ON when Vout >80% of nominal output. 50V, 5mA maximum (20mA for DRB480)		
Operating Temperature	°C	DRB120/240: -25°C to +70°C. Start up at -40°C. (Derate linearly to 50% load from 55°C to 70°C) DRB480: -20°C to +70°C. Start up at -40°C. (Derate linearly to 62.5% load from 50°C to 70°C)		
Storage Temperature	°C	-40°C to +85°C		
Humidity (non condensing)	% RH	5 - 95%RH (Operating and storage)		
Parallel operation	-	No		
Series operation ⁽⁴⁾	-	Yes		
Cooling	-	Convection		
Withstand Voltage (for 1 minute)	VAC	Input to Output 3kVAC, Input to GND 1.5kVAC, Output to GND 500VAC		
Isolation Resistance	MΩ	>100MΩ at 25°C, 70%RH & 500VDC		
Vibration (Non operating)	-	120/240W: 2G, 10 to 55Hz, 480W: 2G, IEC 60068-2-6, 10 to 500Hz		
Shock	-	120/240W: 20G, IEC 60068-2-27, half-sine, 22ms, 3 x each axis on DIN rail, 480W: 5G		
Safety agency certifications	-	UL508, IEC/EN/UL/CSA60950-1, CE Mark (LVD, EMC, RoHS2) In addition, for the DRB120 & 240: 120/240W: EN/UL/CSA62368-1, IEC/EN62477-1 OVC III (CB Report)		
Conducted & radiated EMI	-	EN55011-B, EN55032-B, CISPR11-B, CISPR22-B, EN61204-3 Class A		
Immunity	-	EN61000-4-2 (lvl 3), -3 (lvl 3), -4 (lvl 3), -5 (lvl 3), -6 (lvl 3), -8 (lvl 4), -11		
Weight (typ)	g	500	750	1000
Size (W x H x D)	mm	35 x 124 x 125	41 x 124 x 125	84 x 124 x 125
Case material	-	Metal		
Warranty	yrs	3		

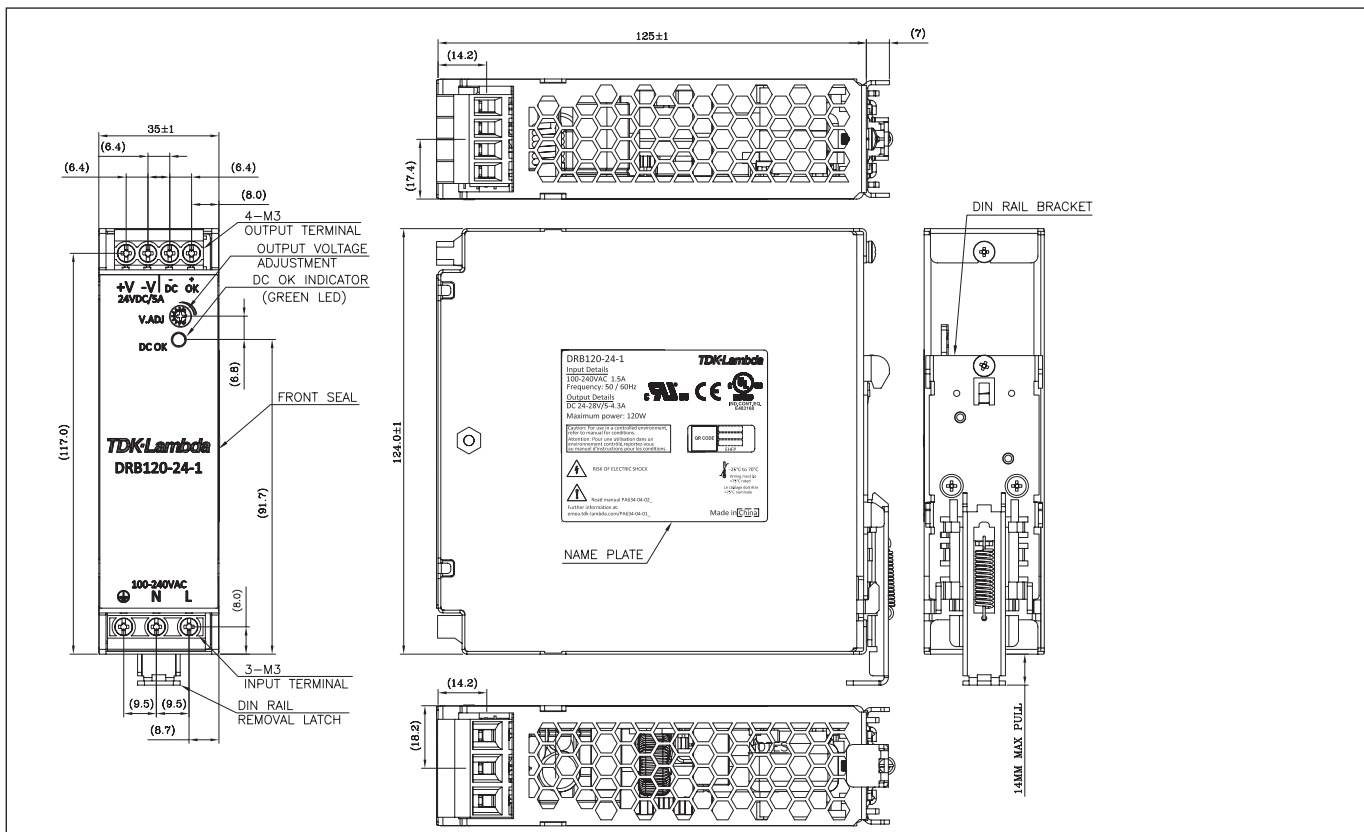
Notes: (1) Derate linearly to 92.5% load from 100 to 90VAC (2) EN61000-3-2 Class A (3) Cycle input voltage to reset (4) See installation manual

Model Selector

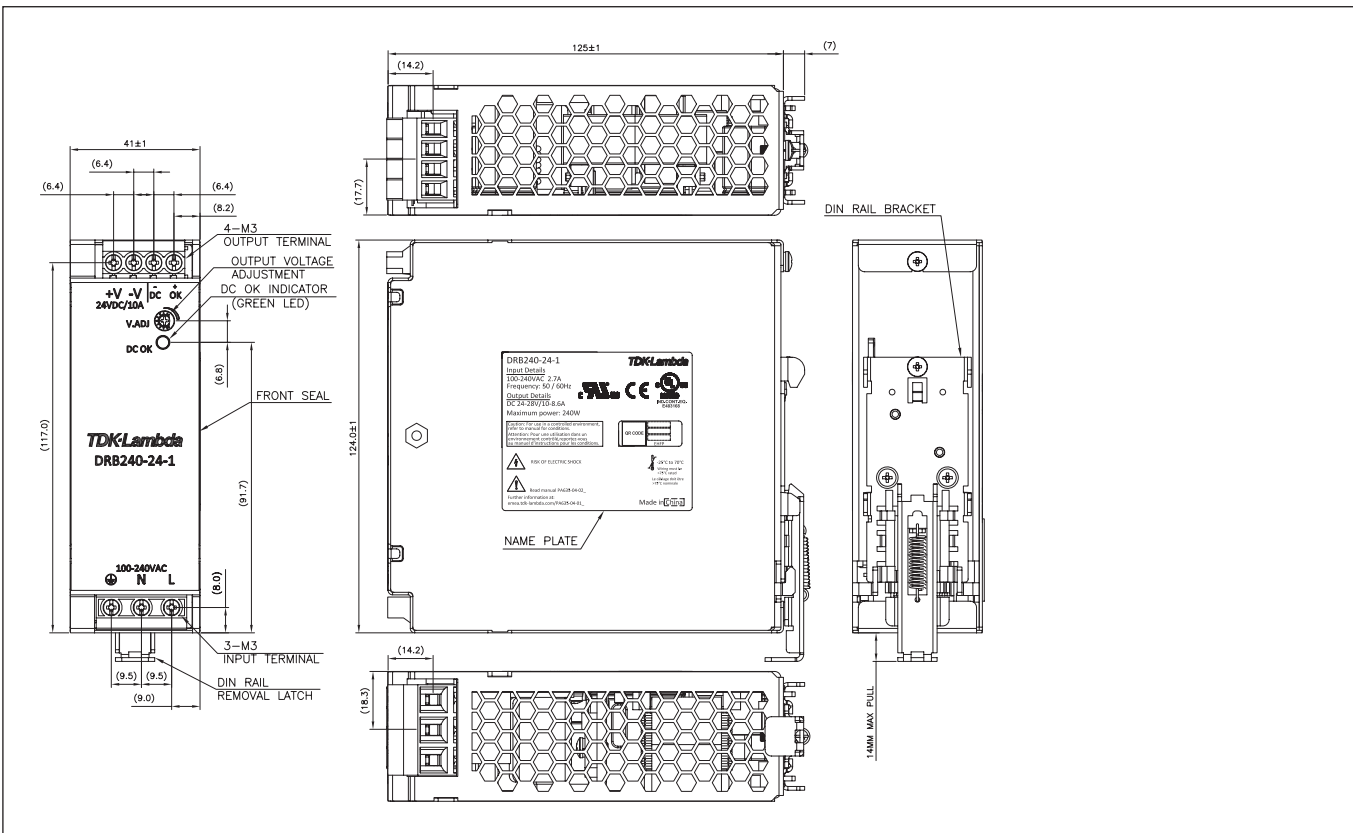
Model	Output Voltage (V)	Output Adjust Range (V)	Max Output Current (A)	Max Output Power (W)	Peak Output Current (5)	Peak Output Power (5)	Efficiency (120 / 230VAC)
DRB120-24-1	24V	24 - 28V	5A	120W	6A	144W	91 / 93% (Typ)
DRB240-24-1	24V	24 - 28V	10A	240W	12A	288W	91 / 93% (Typ)
DRB480-24-1	24V	24 - 26.4V	20A	480W	-	-	>90 / 92%

Notes: (5) <10s, Duty Cycle < 35%

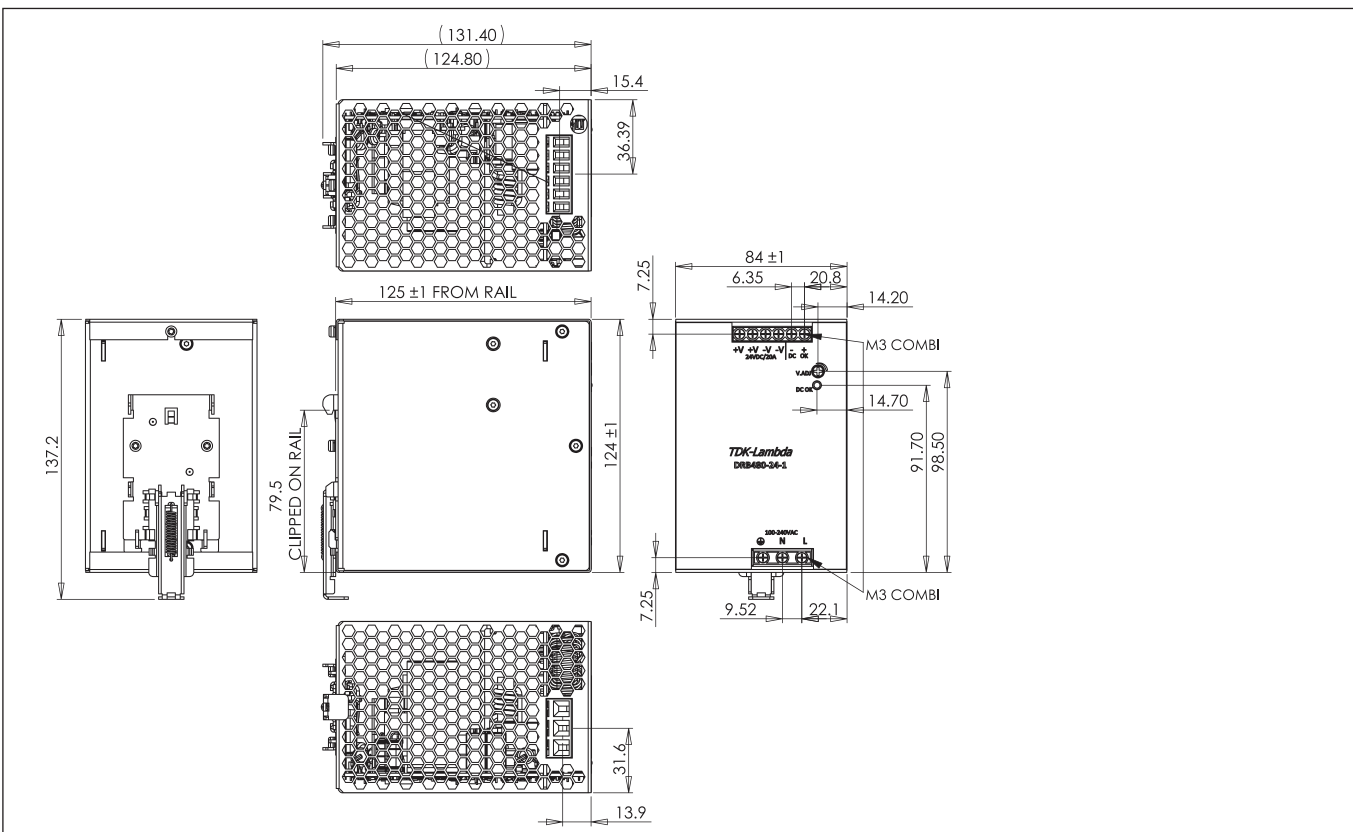
Outline Drawing DRB120



Outline Drawing DRB240



Outline Drawing DRB480





TDK-Lambda France SAS

3 Avenue du Canada
Parc Technopolis
Bâtiment Sigma
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



Italy Sales Office

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



Netherlands

info@nl.tdk-lambda.com
www.nl.tdk-lambda.com



TDK-Lambda Germany GmbH

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



Austria Sales Office

Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info@at.tdk-lambda.com
www.de.tdk-lambda.com



Switzerland Sales Office

Bahnhofstrasse 50
8305 Dietlikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.de.tdk-lambda.com



Nordic Sales Office

Haderslevvej 36B
DK-6000 Kolding
Denmark
Tel: +45 2911 9556
info@dk.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



TDK-Lambda Ltd.

1 Alexander Yanai
Segula
Petah-Tikva
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.tdk-lambda.co.il



C.I.S.

Commercial Support:

Tel: +7 (495) 665 2627

Technical Support:

Tel: +7 (812) 658 0463
info@tdk-lambda.ru
www.tdk-lambda.ru

Local Distribution