

480W, 24V Output DIN Rail Mount Power Supply

Features

- ◆ Compact Size, Narrow Width
- ◆ High Efficiency (>93% at 230VAC)
- ◆ Conservatively Rated Electrolytic Capacitors
- ◆ Curve B EMC
- ◆ Three Year Warranty



Key Market Segments & Applications



Specifications		
Model	DRB480-24-1	
Input Voltage range (1)	VAC	90 - 264VAC
Input Frequency	Hz	47 - 63Hz
Inrush Current (Cold Start)	A	<40A at 264VAC
Power Factor (120/230VAC)	-	0.98 / 0.96 (Meets EN61000-3-2 Class A)
Input Current (120/230VAC)	A	5 / 2.5A
Leakage Current	mA	<1.7mA at 264VAC 63Hz
Line Regulation	mV	<24mV
Load Regulation	mV	<240mV
Ripple & Noise (2)	mV	<240mV
Temperature Coefficient	%/°C	<±0.02%/°C
Overcurrent Protection	-	105 - 145% (Hiccup style)
Overvoltage Protection	-	30V ±2%. Cycle input voltage to reset
Overtemperature Protection	-	Yes
Hold Up Time	ms	> 16ms
Efficiency (120 / 230VAC)	%	>90 / 92%. Average efficiency >87%
LED Indicator	-	Green LED = DC is OK
DC OK Signal	-	Optocoupler; ON when Vout >80% of nominal output. 50V, 20mA maximum.
Operating Temperature	°C	-20 to +70°C. Start up at -40°C. (Derate linearly to 62.5% load from 50 to 70°C)
Storage Temperature	°C	-40 to +85°C
Humidity (non condensing)	%RH	5 - 95%RH (Operating and storage)
Parallel Operation	-	No
Series Operation (2)	-	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)	-	2G, IEC 60068-2-6, 10 to 500Hz
Shock	-	5G, IEC 60068-2-27, half-sine, 22ms, 3 x each axis on DIN rail
Safety Agency Certifications	-	UL508 (UL840), CSA22.2 No. 107.1-01, IEC/EN/UL60950-1†, CE Mark
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	1000
Size (WxHxD)	in	3.3 x 4.92 x 4.88
Mounts on TS-35/7.5 or -35/15 rail	mm	84 x 125 x 124
Case material	-	Metal
Warranty	yrs	Three years

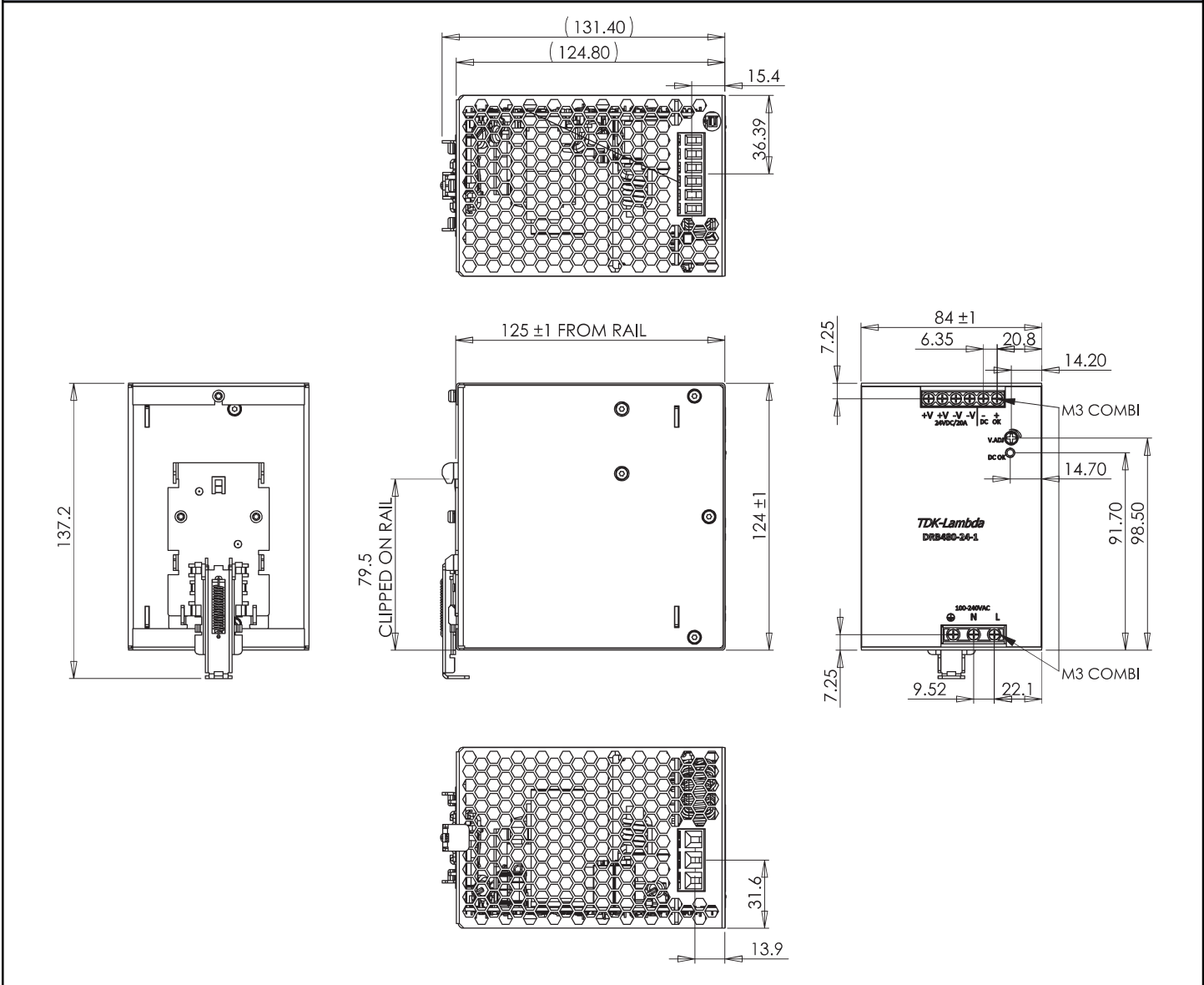
(1) Derate linearly to 92.5% load from 100 to 90VAC

(2) See installation manual

† Certification to the IEC62368-1 standard in progress (2018)

Model	Output Voltage	Adjust Range	Max Current	Max Power
DRB480-24-1	24V	24 - 26.4V	20A	480W

Outline DRB480



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

