Industrial Test Automation

10-100W Low Profile DIN Rail Mount Power Supplies

Features	Benefits
• High Efficiency, up to 90% @ 230VAC	• Energy Saving - Improved Thermal Performance
• UL1310 Class 2 Compliant	• Reduced Installation Costs (NEC Class 2)
• Low No Load Consumption	• ErP Compliant
• Long E-Cap-Life (>8 years @ 40°C, 75% Load, 230VAC)	• High In-Service Lifetime
• Class II, Wide Range Input (85-264VAC)	• Global Application, No Earth Required

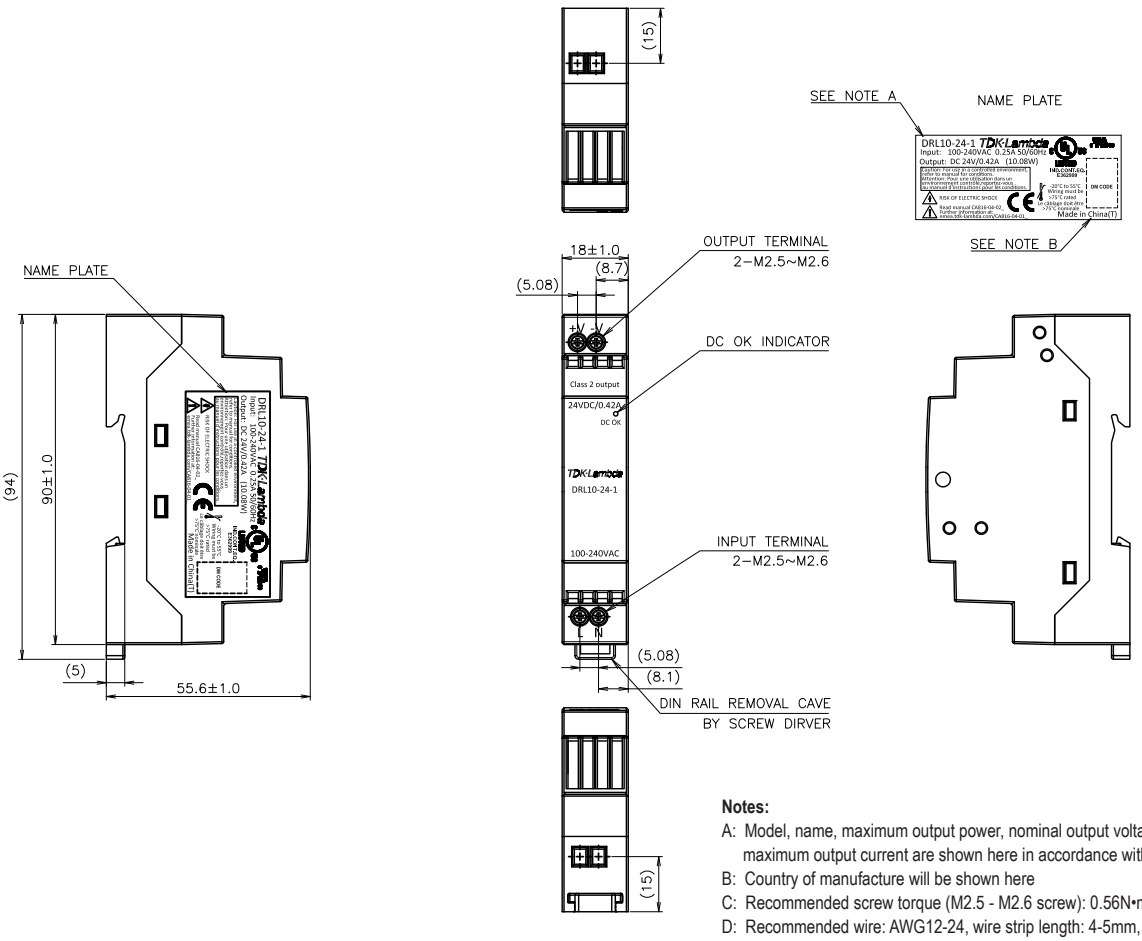
Specification

Model		DRL10	DRL30	DRL60	DRL100
Input Voltage Range	V	85 - 264VAC (Withstands 300VAC for 5 seconds)			
Input Frequency	Hz	47 - 63Hz			
Inrush Current at 230VAC (typ) (Cold Start)	A	40	50	60	60
Power Factor (115/230VAC)		Meets IEC61000-3-2 Class A			
Input Current (110/230VAC)	A	0.56 / 0.42 0.18 / 0.12	0.58 / 0.45 0.6 / 0.4	0.5 / 0.43 1.2 / 0.8	0.5 / 0.47 2.0 / 1.1
Line & Load Regulation	-	See model selector			
Ripple & Noise	-	See model selector			
Overcurrent Protection	-	>105% Hiccup with auto recovery			
Overvoltage Protection	-	See model selector. Cycle AC input voltage to reset			
Hold Up Time (typ) at 115VAC Input	ms	20	20	20	15
Efficiency	-	See model selector			
No Load Power Draw	W	<0.3	<0.3	<0.5	<0.5
LED Indicator	-	Green LED indicates DC is OK			
Operating Temperature (-25°C start-up)	°C	DRL10, 30, 60: -20° to +71°, derate linearly from 100% to 60% load from 55° to 71° DRL100: -20° to +71°, derate linearly from 100% to 60% load from 51° to 71° DRL100 (<115VAC): -20° to +71°, derate linearly from 100% to 40% load from 40° to 71°			
Storage Temperature	°C	40° to +85°			
Operating Humidity (non condensing)	%RH	5 - 95			
Parallel Operation	-	Not available			
Series Opereration	-	Possible			
Cooling	-	Convection			
Operating Altitude	m	3,000			
Withstand Voltage (For 1 minute)	VAC	Input to Output 3kVAC			
Isolation Resistance	MΩ	>100MΩ at 25°C, 70%RH & 500VDC			
Vibration (Operating)	-	IEC 60068-2-6, Sine Wave, 10-500Hz, 19.6m/s^2 (2G peak) 10 min per cycle, 60 min for all X,Y,Z directions			
Shock	-	IEC 60068-2-27, Half Sine Wave, 39.2m/s^2 (4G) for a duration of 22ms 3 shocks for each 3 directions, 9 times in total			
Safety Agency Certifications	-	UL508 Listed, UL60950-1, UL1310 Class 2 (LPS), NEC Class 2 (except DRL60-12 & DRL100-24), CSA22.2 No.60950-1, EN60950-1, CE Mark			
Conducted & Radiated EMI	-	EN55022-B Conducted, EN55022-A Radiated			
Immunity	-	EN61000-4-2 (lvl 3) , -3 (lvl 3), -4 (lvl 4), -5 (lvl 3), -6 (lvl 3), -8 (lvl 4), -11 (class 3)			
Line Dip (200-240VAC)	-	SEMI F47 Compliant			
Weight (Typ)	g	65	120	200	280
Size (WxHxD)	mm	18 x 91 x 55.6	36 x 91 x 55.6	54 x 91 x 55.6	72 x 91 x 55.6
Case Material	-	Flame Retardant Polycarbonate (UL94 V-0)			
Warranty	yrs	3			

Model Selector

Model	Output Voltage (V)	Adjust Range (V)	Max Current (A)	Max Power (W)	Load Reg (mV)	Line Reg (mV)	Ripple & Noise (mV)	Overvoltage Protection Trigger Range (V)	Efficiency (%) (115/230VAC)
DRL10-12-1	12	-	0.84	10.08	120	120	120	13.8 - 16.2	85 / 85
DRL30-12-1	12	12 - 15	2.1	25.2	120	120	120	16 - 19	87 / 88
DRL60-12-1	12	12 - 15	4.A	54	120	120	120	16 - 19	87 / 87
DRL10-24-1	24	-	0.42	10	240	240	240	29 - 35	87 / 87
DRL30-24-1	24	24 - 28	1.25	30	240	240	240	29 - 35	88 / 90
DRL60-24-1	24	24 - 28	2.5	60	240	240	240	29 - 35	89 / 90
DRL100-24-1	24	24 - 28	4.2	100.8	240	240	240	29 - 35	88 / 90

Outline Drawing DRL10-1



Notes:

A: Model, name, maximum output power, nominal output voltage, maximum output current are shown here in accordance with the specifications

B: Country of manufacture will be shown here

C: Recommended screw torque (M2.5 - M2.6 screw): 0.56N•m (5.0 lb•inch)

D: Recommended wire: AWG12-24, wire strip length: 4-5mm, 5mm max