



Industrial



Test



Renewable



Broadcast

15W to 100W Single Output DIN Rail Mount Power Supplies



Features	Benefits
• Compact Footprint	• Saves Space on Rail & Cabinet Cost
• Efficiency up to 91%	• Cooler Applications - Improved Thermal Performance
• ErP Compliant Design	• Better "Environmental Footprint"

Specification					
Model		DRB15	DRB30	DRB50	DRB100
ITEMS					
AC input voltage range	VAC	85-264 (withstand 300VAC for 5 sec)			
Input frequency	Hz	47-63			
Inrush cold (typ)	A	35A	40A	50A	40A
Power factor (typ) (110/230VAC)		0.55/0.42	0.56/0.46	0.6/0.5	0.98/0.93
Input current (typ)	A	0.27/0.17	0.55/0.33	0.9/0.55	1.2/0.6
Output voltage	V	24	12 / 24	5 / 12 / 24 / 48	24
Output current	A	0.63	2.5 / 1.25	6 / 3.4 / 2.1 / 1.05	4.2
Line regulation	mV	240	120 / 240	50 / 150 / 240 / 480	240
Load regulation	mV	240	120 / 240	50 / 150 / 240 / 480	240
Ripple & noise (max) (typ)	mV	20	40 / 30	30 / 20 / 30 / 40	30
Over current protection		Hiccup with auto recovery			
Over voltage protection (1)		5V: 115%-135%, 12V: 133%-156%, 24V: 125%-140%, 48V: 112%-142% (latch mode)			
Hold up time (230VAC)	ms	20 @100VAC, full load, 25°C			
Efficiency (typ) (230VAC)	%	90	88 / 90	80 / 90 / 90 / 91	91
Average efficiency (230VAC)	%	88	87/89	5V:n/a, 12V:88, 24V:87, 48V:87	87
No load power	W	<0.3	<0.3	<0.3	<0.5
Parallel operation		Not available			
Serial operation		Possible			
LED indicators		DC OK signal - green			
Operating temperature (2, 3, 5)	°C	-20°C to +70°C (see derating curves)			
Storage temperature	°C	-40°C to +85°C			
Operating humidity		5-95% RH (non condensing)			
Cooling (4)		Convection			
Withstand voltage		Input - Output : 3.0kVAC (20mA), Input - FG : 1.5kVAC (20mA) Output - FG : 500VAC (100mA) 1 min.			
Isolation resistance	MΩ	Input-FG, Input-Output & Output-FG: More than 100MΩ (500VDC) at 25°C and 70%RH			
Vibration		Non-operating, 10-55Hz (sweep for 1 min.): 19.6 m/s ² (2G) Constant, X,Y,Z each 1hr			
Shock		294m/s ² (30G) 11ms half sine			
Safety agency approvals		UL60950-1, CSA22.2 No.60950-1 (2nd edition), EN60950-1, UL508			
Emissions		EN55022, CISPR22 class B			
Immunity		EN61000-4-2,-3,-4,-5,-6,-8,-11			
Weight (typ)	g	85	95	175	300
Size (W x H x D)	mm	18 x 75 x 90	21x75x90	30x75x90	45x75x100
Case material		Flame Retardant Polycarbonate (UL94 V-0)			
Warranty	yrs	3			

Notes:

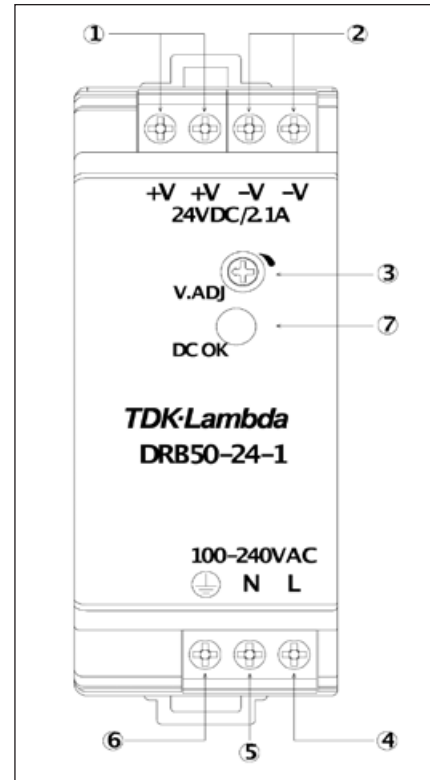
- Output will shutdown, manual reset required (power off then on)
- For UL508 operating temperature refers to surrounding air temperature
- Low temperature start up: -40°C typical

- Refer to output derating curves
- See installation instructions for mounting orientation

Model Selector

Model	Output Voltage	Output Adjust Range (V)	Max Output Current (A)	Max Output Power (W)	Efficiency at 115/230 VAC (%)
DRB15-24-1	24	24-28	0.63	15.12	87/90
DRB30-12-1	12	12-15	2.5	30	86/88
DRB30-24-1	24	24-28	1.25	30	88/90
DRB50-5-1	5	5-5.5	6	30	79/80
DRB50-12-1	12	12-15	3.4	50.4	88/90
DRB50-24-1	24	24-28	2.1	50.4	88/90
DRB50-48-1	48	48-52.8	1.05	50.4	90/91
DRB100-24-1	24	24-28	4.2	100.8	90/91

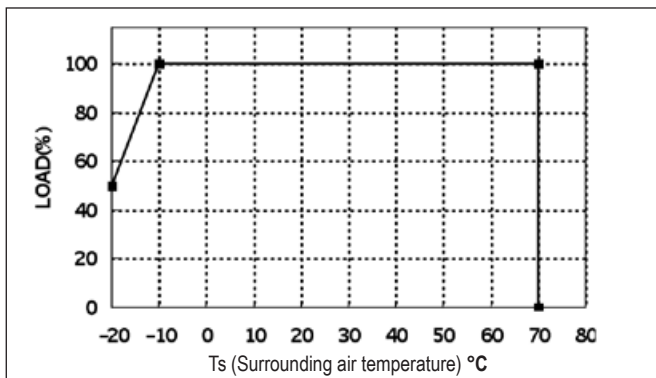
Terminal Explanation Example



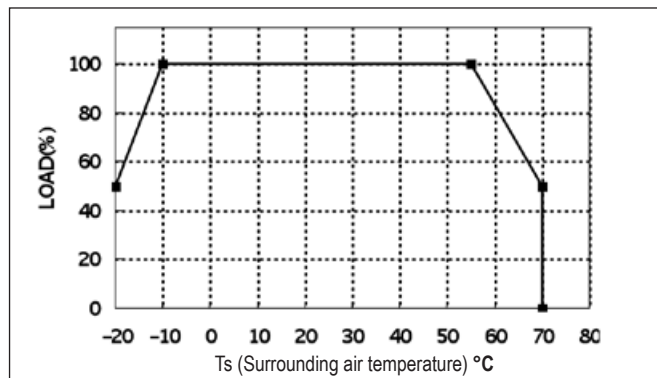
Connection

Pin	
1	+V: + Output terminal
2	-V: - Output terminal
3	V. adj: Output voltage adjust trimmer. The output voltage rises when the trimmer is turned clockwise
4	L: AC Input terminal live line (fuse in line)
5	N: AC Input terminal neutral line
6	E: Protective earth connect to safety ground of apparatus or equipment
7	DC OK: Green LED lights when output voltage on

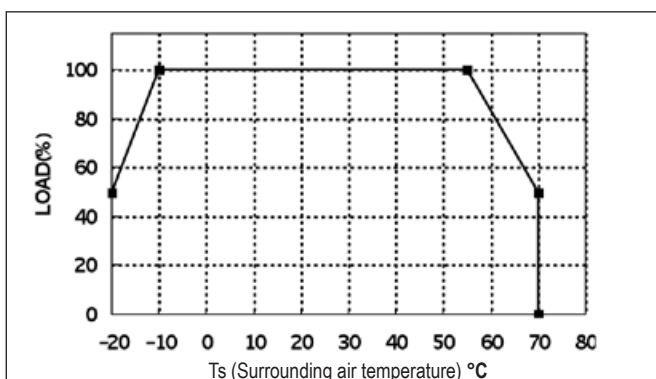
Output Derating DRB15 Series



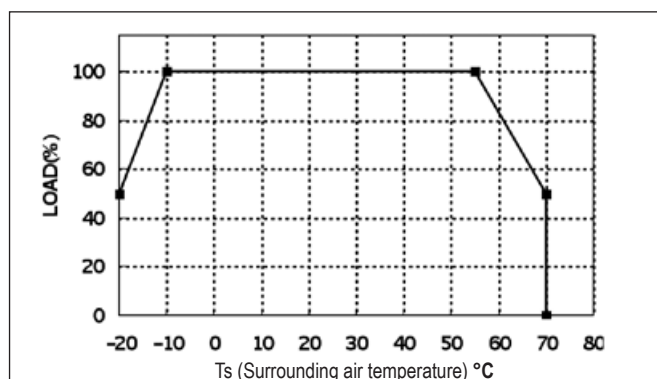
Output Derating DRB30 Series



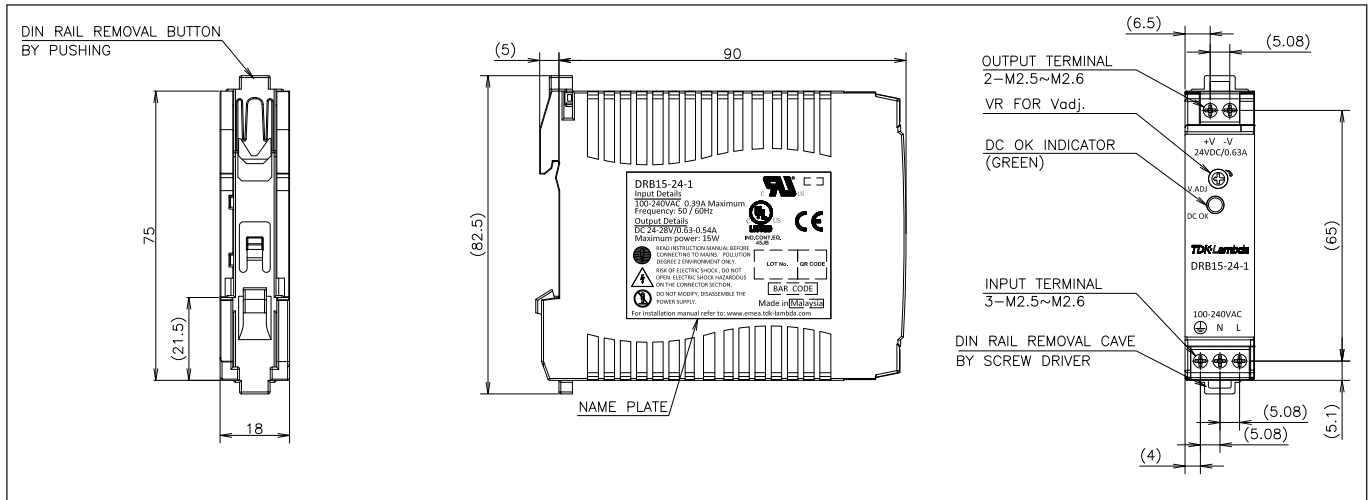
Output Derating DRB50 Series



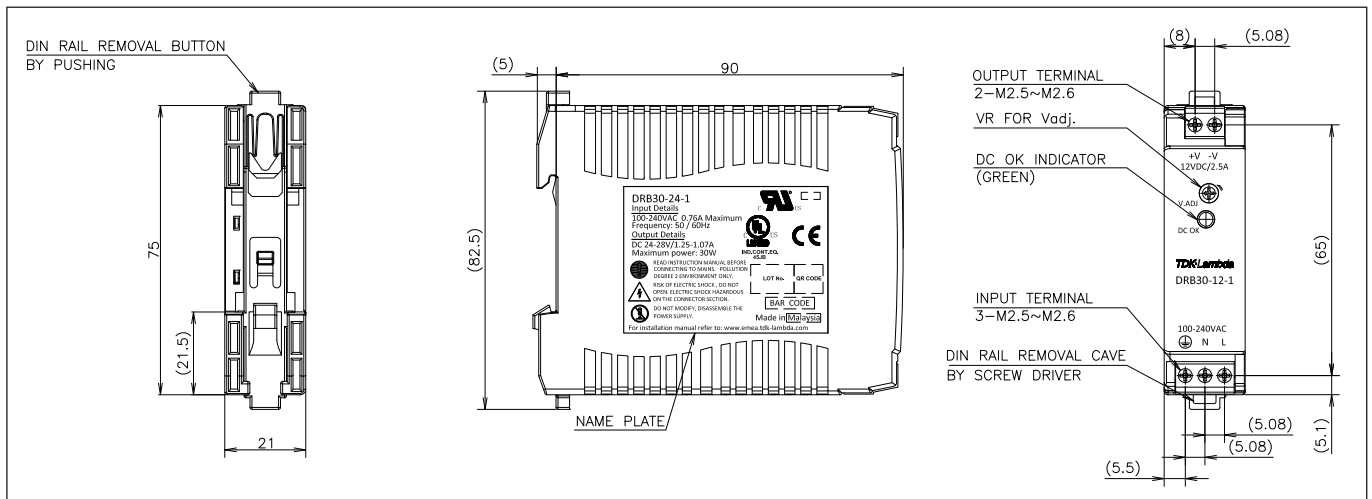
Output Derating DRB100 Series



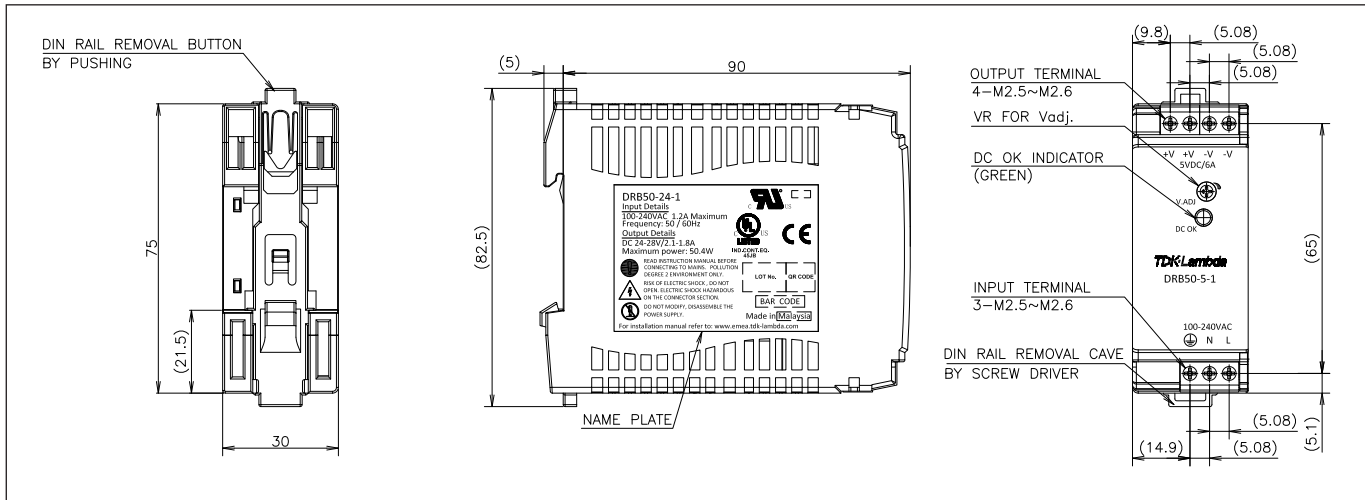
Outline Drawing DRB15 Series



Outline Drawing DRB30 Series



Outline Drawing DRB50 Series



Outline Drawing DRB100 Series

