



- Wide Range AC Input (90 - 305 VAC)
- Compact Size & High Efficiency
- Constant Current (ALC) and Constant Voltage (ALV)
- IP66 Splash Proof Plastic Case
- Guaranteed - 40°C Start-Up
- IEC 61000-3-2 Class C Harmonics
- EN 61347-1 /-2-13 , UL 8750 & PSE Compliant
- Excellent MTBF & E-Cap Life Time Values
- 3 Year Warranty

AL60, 80 & 100 Series

60 to 100W IP66
Power Supplies

Key Market Segments & Applications



Light Sources, Illumination Boards
Signboards / Displays, Architectural Lighting
Traffic Lights, Indoor & Outdoor Use

AL60, 80 & 100 Features and Benefits

Features

- IP66 Rated
- Vacuum Encapsulated
- Wide Range AC Input

Benefits

- Can be used Outdoors
- Robust
- Supports Global Use

Specifications

ITEMS	MODEL	ALC Constant Current		ALV Constant Voltage
		90 - 305VAC, 47 - 63Hz		
AC Input	VAC/Hz	90 - 305VAC, 47 - 63Hz		
Inrush Current (100/200VAC)	A	25 / 50A, 25°C ambient, cold start		
Input Current (100/200VAC)	A	Model dependant		
Harmonics / Power Factor (1)	-	IEC61000-3-2 Class C above 50% load / 0.99/0.95 at 100/230VAC ⁽¹⁾		
Output Accuracy	%	±5%	±3%	
Total Regulation	%	±5%	±3%	
Overcurrent Protection	-	Automatic Recovery	> 105% of rated power	
Overvoltage Protection	%	> 110% (Cycle AC to reset)		
Turn on time	ms	< 1000ms		
Leakage Current (277VAC 60Hz)	µA	< 250µA		
Operating Temperature	°C	-30°C to +70°C, (Guaranteed start up at -40°C). AL60; derate linearly to 70% load from 50°C to 70°C, AL80; derate linearly to 60% load from 50°C to 70°C, AL100; derate linearly to 50% load from 50°C to 70°C		
Storage Temperature	°C	-30°C to +85°C		
Operating Humidity	-	15 - 90% RH (non condensing)		
Storage Humidity	-	15 - 90% RH (non condensing)		
Cooling	-	Convection		
Withstand Voltage	-	Input to Output 3kVAC (Class II, no ground connection needed)		
Isolation Resistance	Ω	>100MΩ at 25°C & 70%RH, Input to Output at 500VDC		
Vibration (non operating)	-	10 - 55Hz: 19.6m/s ² constant sweep 1 min X, Y, Z for 30 mins		
Shock	-	< 196.1 m/s ² (20G)		
Immunity	-	IEC61000-4-2 (lv 3), -3 (lv3), -4 (lv3), -5 (lv 4), -6 (lv 3), -8 (lv 4), -11		
Safety Agency Approvals	-	ENEC, UL8750, EN61347-1, EN61347-2-13, CSA C22.2 No. 60950-1, CE Mark, PSE		
Conducted & Radiated EMI	-	EN55015-B, EN55022-B, CISPR 22-B, FCC-B		
IP Class	-	IP66		
Weight (Typ)	g	AL60: 380g, AL80, AL100: 500g		
Size (LxWxH)	mm	241mm x 43mm x 35mm		
Warranty	yrs	3		

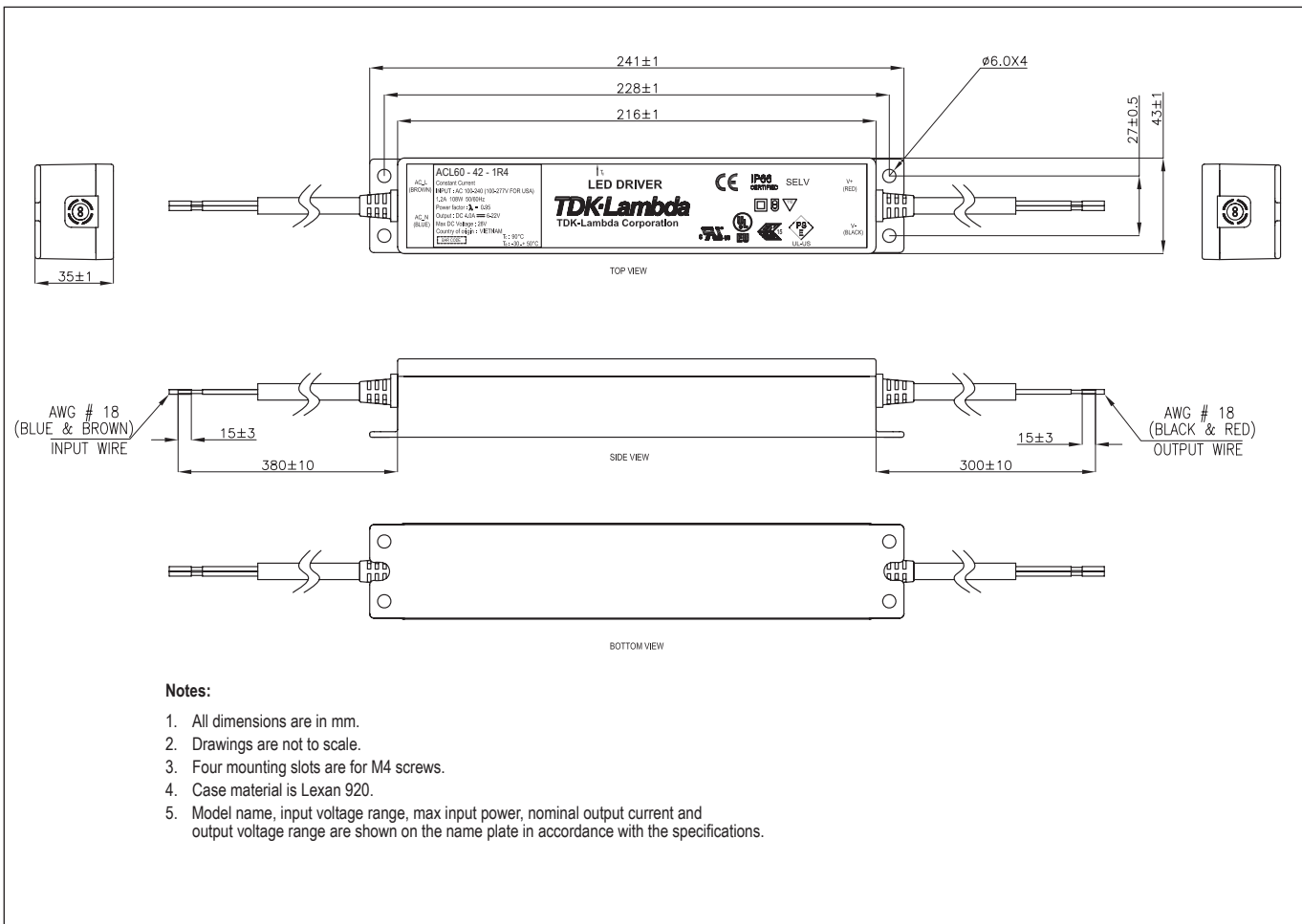
Note (1) 0.98/0.93 for ALx60 models

Model Selector

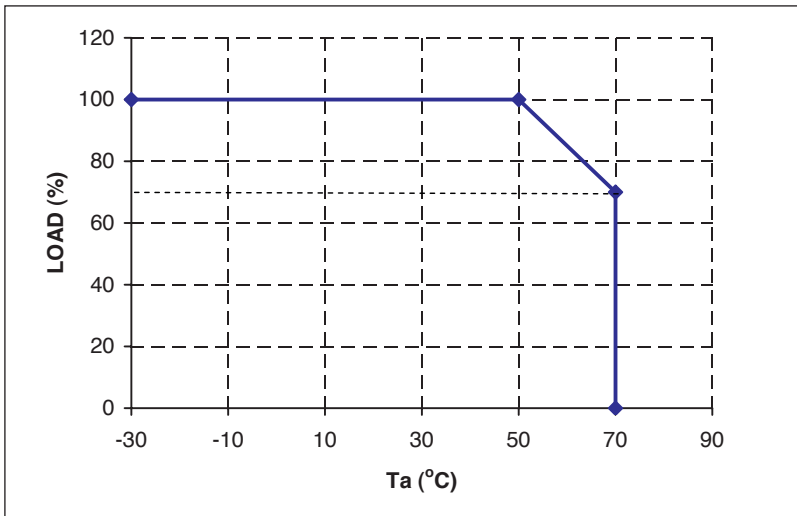
Model	Constant Current Constant Voltage	Output Voltage (V)	Output Current (A)	Efficiency	Maximum Average Power	Ripple & Noise	MTBF hrs ⁽²⁾ JEITA RCR-9102B
ALC60-48-1R05	CC	6 - 48V	1.05A	85%	50.4W	-	> 226,000
ALC60-42-1R4	CC	6 - 42V	1.4A	86%	58.8W	-	> 226,000
ALV60-12-5R0	CV	12V	5A	85%	60.0W	180mV	> 278,000
ALV60-24-2R5	CV	24V	2.5A	88%	60.0W	240mV	> 278,000
ALV60-36-1R7	CV	36V	1.7A	87%	61.0W	360mV	> 278,000
ALV80-12-6R5	CV	12V	6.5A	86%	78.0W	180mV	> 259,000
ALV100-24-3R8	CV	24V	3.8A	89%	91.2W	240mV	> 269,000
ALV100-36-2R5	CV	36V	2.5A	88%	90.0W	360mV	> 269,000

Note (2) @ 50°C ambient, for details please contact sales

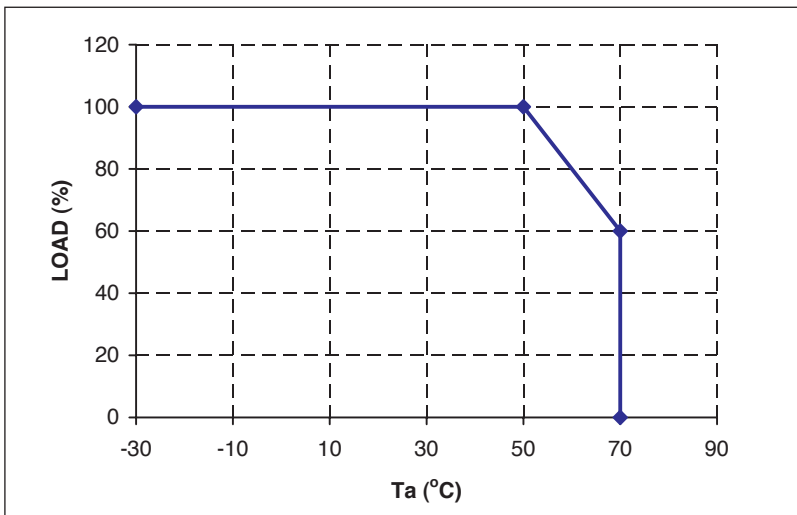
Outline Drawing AL60, 80 & 100 Series



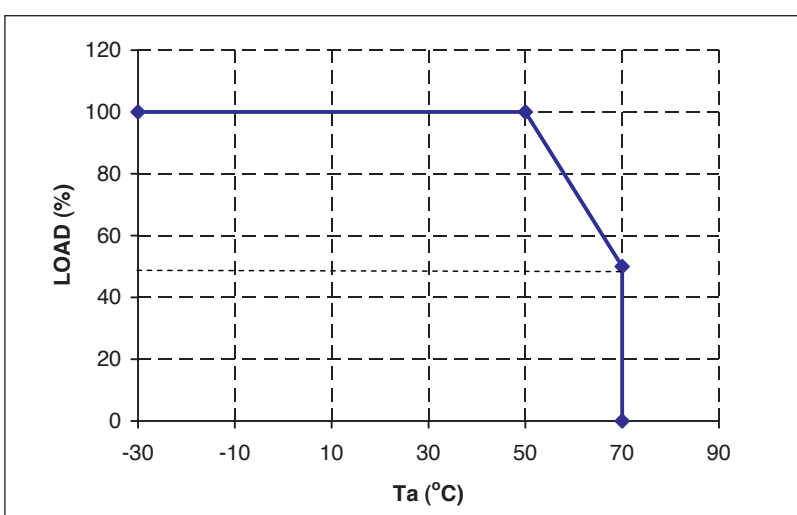
Derating Curve AL60 Series



Derating Curve AL80 Series



Derating Curve AL100 Series



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