

12W IP66 Power Supplies

Features

- ◆ Small Size
- ◆ 115VAC or 230VAC input
- ◆ Constant Current or Constant Voltage Versions
- ◆ Splash proof
- ◆ Conservative component ratings for long life



Key Market Segments & Applications



Specifications			
Model		ALC12	ALV12
AC Input	VAC/Hz	90 - 264VAC, 47 - 63Hz	
Inrush Current (100/200VAC)	A	25 / 50A, 25°C ambient, cold start	
Input Current (110/200VAC)	A	0.28 / 0.18A	
Temperature Coefficient	-	<0.02%/°C (0 - 50°C)	
Overcurrent Protection	-	Automatic Recovery	> 105% of rated power
Overvoltage Protection	%	> 110%	
Turn on time	ms	< 200ms	
Hold Up Time (115/230V input)	ms	5ms typical	
Leakage Current (265VAC 60Hz)	mA	0.25mA	
Efficiency	%	82% typical at full load	
Operating Temperature	-	-10 to +60°C (Guaranteed start up at -20°C)	
Storage Temperature	-	-30 to +85°C	
Operating Humidity (1)	-	15 - 90% RH	
Storage Humidity (1)	-	15 - 90% RH	
Cooling	-	Convection	
Withstand Voltage	-	Input to Output 3kVAC	
Isolation Resistance	-	>100M at 25°C & 70%RH, Input to Output at 500VDC	
Vibration (non operating)	-	0 - 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, -3, -4, -5, -6, -8, -11	
Safety Agency Approvals	-	UL1310 (Class 2), CAN/CSA-C22.2 No 223-M91, IEC61347-1, IEC61347-2-13, CE Mark, PSE	
Conducted & Radiated EMI	-	EN55015, EN55022, FCC Class B	
IP Class	-	IP66	
Weight (Typ)	g	84	
Size (LxWxH)	in(mm)	3.45 x 1.36 x 0.83" (90 x 34.5 x 21mm)	
Warranty	yrs	Three Years	

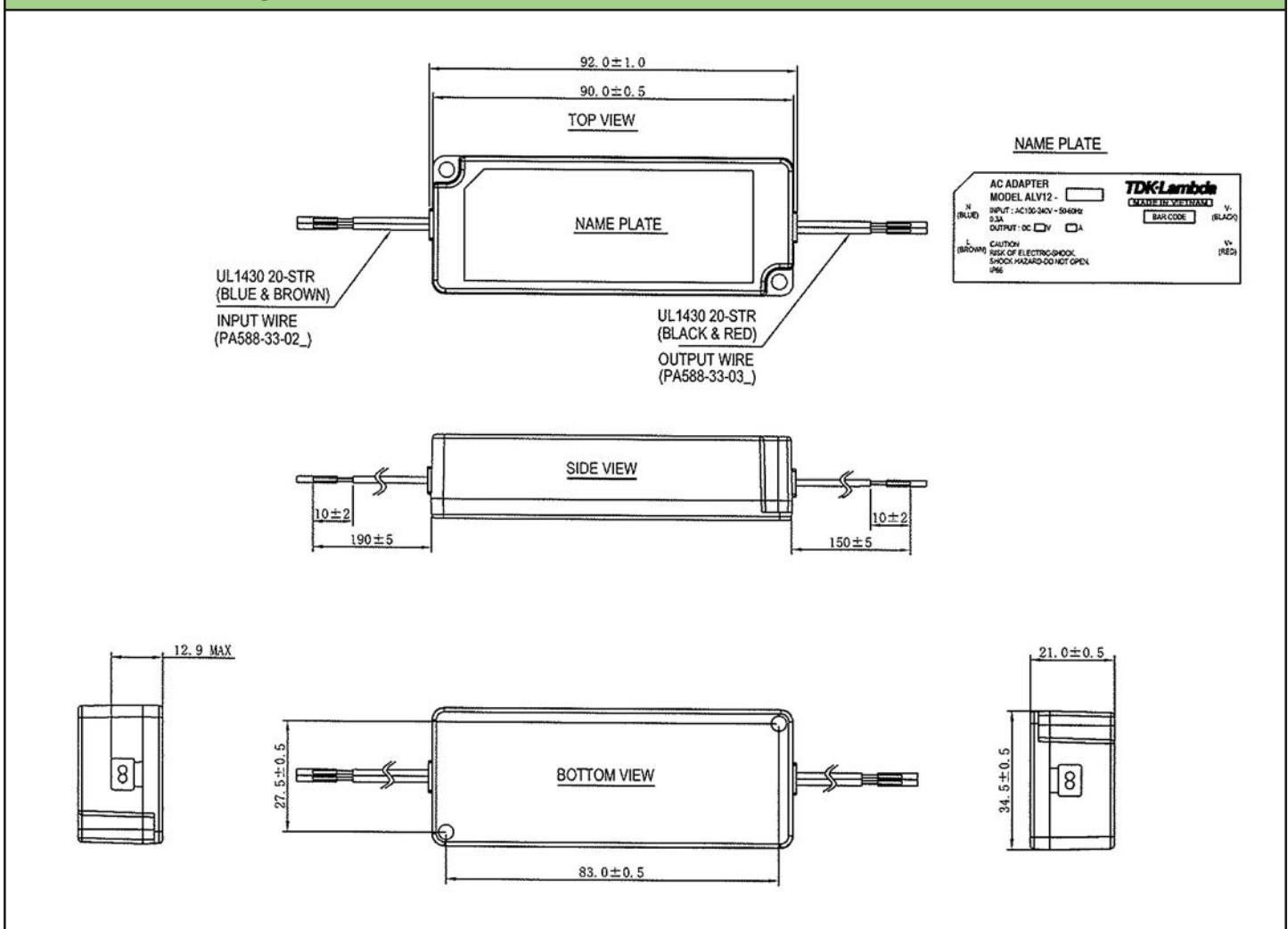
(1) Non condensing

Not recommended for new designs

Model Selector

Model	Output CV/CC	Output Voltage (V)	Min. Output Accuracy	Output Current (A)	Maximum Current (A)	Average Power	Ripple & Noise
ALC12-36-R35	CC	3 - 36V	0.33 - 0.37A	-	0.35A	12.6W	-
ALC12-18-R70	CC	3 - 18V	0.66 - 0.735A	-	0.7A	12.6W	-
ALV12-12-1R0	CV	12	11.4 - 12.6V	0.1A	1A	12W	100mV
ALV12-15-R80	CV	15	14.25 - 15.75V	0.08A	0.8A	12W	100mV
ALV12-24-R50	CV	24	22.8 - 25.2V	0.05A	0.5A	12W	150mV

Outline Drawings



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



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