

ALR-75 Series, 75Watt
FEATURES:

- ✓ Universal AC input range
- ✓ Short circuit, and over current protections
- ✓ Board in-line type installation
- ✓ High voltage isolation
- ✓ Metal case



Model	Input voltage (Vac)	Output voltage (Vdc)	Output current (A)	Output power (W)
ALR75-5	85-265	5	15	75
ALR75-12		12	6.25	75
ALR75-15		15	5	75
ALR75-24		24	3.13	75

Notes: Above models are default to metal case and with heatsink.

ELECTRICAL
Input

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Input voltage	V_{in}	--	85	--	265	Vac
Input frequency	F_{line}	--	47	--	63	Hz
Efficiency	η	Full voltage, full load	--	85	--	%

Output

Output voltage Accuracy	--	$V_{in}=100-240Vac$	--	1	--	%
Line regulation	$V_{out-line}$	V_{in} from 100Vac to 240Vac	--	0.2	--	%
Load regulation	$V_{out-load}$	20%-100% load	--	0.5	--	%
Ripple	V_{ripple}	--	--	--	120	mV
Turn-on delay time	--	--	--	1	--	S

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ELECTRICAL
Protection

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Over current		Continuous Automatic Recovery				
Short circuit		Continuous Automatic Recovery				

Environment

Storage	T_{storage}	Humidity: 5% to 95% RH	-40	--	+105	°C
Ambient operating temperature	T_a	--	-25	--	+65	°C
Case temperature	T_c	--	--	--	+90	°C
Operating relative humidity	H_a	Non condensing	10	--	90	%
MTBF	T_{MTBF}	--	--	--	200	kHrs
Dimension(LxWxH)			127x88.9x17.2mm			
Weight			507g			

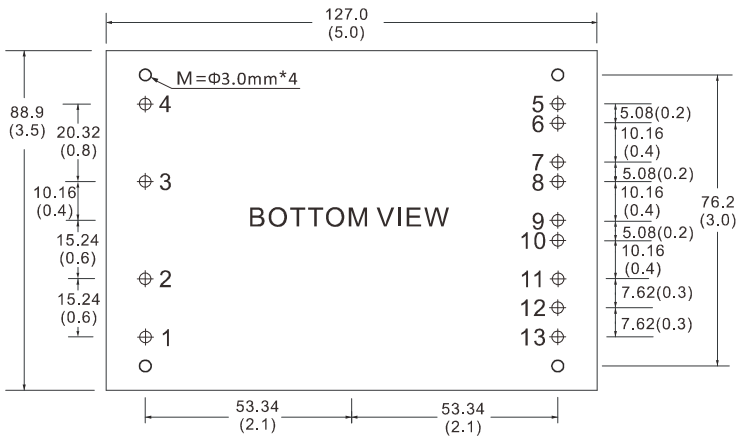
Safety

Isolation Voltage	Input-Output: 2500Vac \leq 1.5mA//1min					
	Input-Case: 1500Vac \leq 1.5mA//1min					
	output-Case: 1500Vac \leq 1.5mA//1min					

Notes: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and $V_{\text{in}} = 100\text{Vac}$ to 240Vac.

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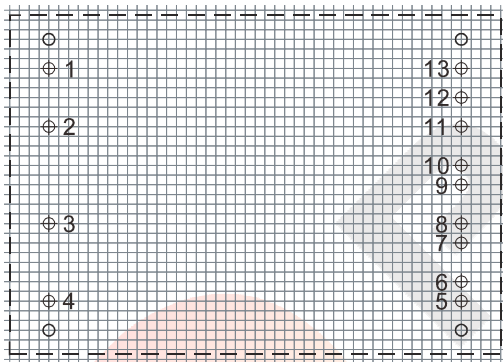
MECHANICAL



CONNECTION

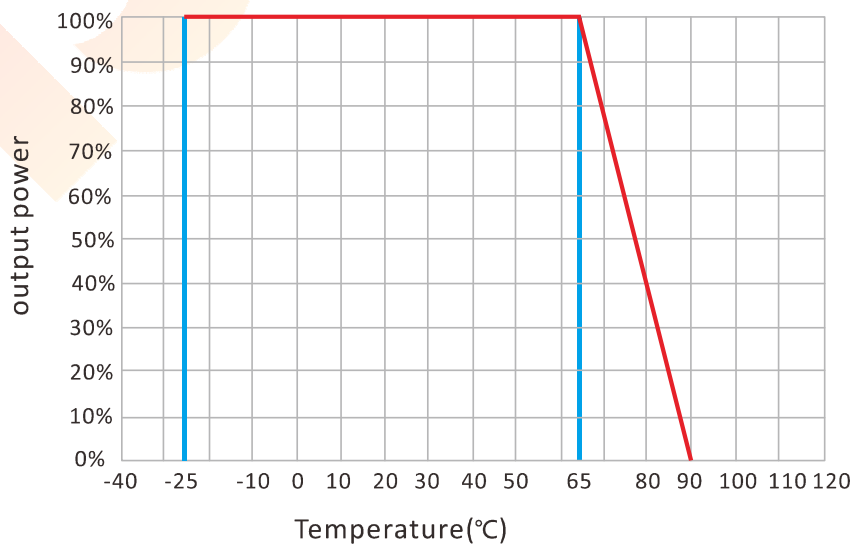
PIN #	SINGLE
1	NC
2	FG
3	AC(N)
4	AC(L)
5, 6	+Vo
7, 8	No Pin
9, 10	GND
11	+S
12	TRIM
13	-S

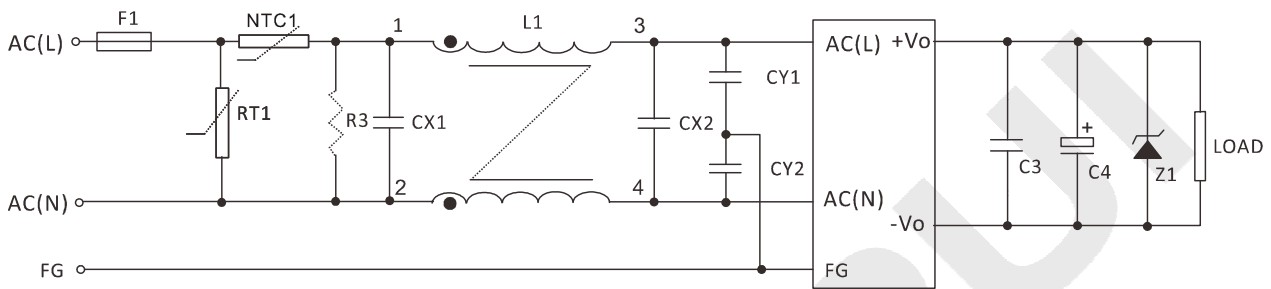
LAYOUT



Note: Unit is mm(inch);
PIN#1,2,11,12,13 $\Phi=1.0\text{mm}$,
others $\Phi=1.5\text{mm}$

ELECTRICAL CURVE



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NOTE
RECOMMENDED TEST AND APPLICATION CIRCUIT

EMC RECOMMENDED APPLICATION CIRCUIT

	5VDC	12VDC	15VDC	24VDC
F1		T3.15A/250V		
RT1		14D417K		
NTC1		5D-14		
R3		1MΩ/2W		
L1		L=3-10mH, I=0.2-0.5A		
CX1, CX2		0.15-3.3μF/300Vac		
CY1, CY2		102K/400Vac		
C3		1μF/50V		
C4	470uF/16V	120uF/25V	120uF/25V	100uF/35V
Z1	P6KE6.8A	P6KE16A	P6KE20A	P6KE33A