ALR-10 Series, 10Watt

FEATURES:

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

Model	Input voltage (Vac)	Output voltage (Vdc)	Output current (mA)	Output power (W)
ALR10-22011	85-265	5	2000	10
ALR10-22012		9	1111	10
ALR10-22013		12	833	10
ALR10-22014		24	416	10
ALR10-22021		±5	±1000	10
ALR10-22022		±9	±555	10
ALR10-22023		±12	±416	10
ALR10-22024		±24	±208	10

Note : Above models are default to plastic case, you may request for the models with metal case, plus "M" in the suffix.

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	--	80	--	%

Output

Output voltage accuracy	--	V_{in}=100-240Vac	--	1	--	%
Line regulation	$V_{out\text{-}line}$	V_{in} from 100Vac to 240Vac	--	0.2	--	%
Load regulation	$V_{out\text{-}load}$	20%-100% load	--	0.5	--	%

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ELECTRICAL

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Input						
Ripple	V_{ripple}	--	--	--	120	mV
Turn-on delay time	--	--	--	1	--	S
Protection						
Over current	Continuous Automatic Recovery					
Short circuit	Continuous Automatic Recovery					
Environment						
Storage	$T_{storage}$	Humidity: 5% RH to 95% RH	-40	--	+105	℃
Ambient operating temperature	T_a	--	-25	--	+65	℃
Case temperature	T_c	--	--	--	+90	℃
Operating relative humidity	H_a	Non condensing	10	--	90	%
MTBF	T_{MTBF}	--	--	--	200	kHrs
Dimension(LxWxH)	55x45x20.5mm					
Safety						
Isolation Voltage	Input-Output: 2500Vac≦1.5mA//1min					
	Input-Case: 1500Vac≦1.5mA//1min					
	output-Case: 1500Vac≦1.5mA//1min					

Notes: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin = 100Vac to 240Vac.

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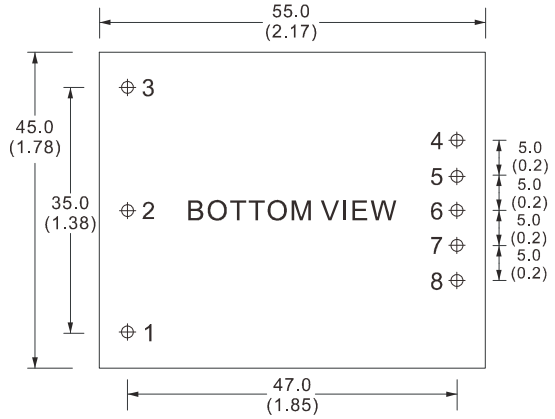
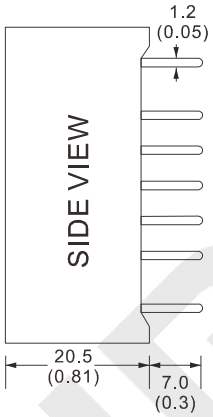
MECHANICAL





CONNECTION

PIN #	SINGLE	DUAL
1	FG	FG
2	AC(N)	AC(N)
3	AC(L)	AC(L)
4	+Vo	+Vo1
5	No Pin	No Pin
6	No Pin	COM
7	No Pin	No Pin
8	GND	-Vo2

Note: Unit is mm(inch).

ELECTRICAL CURVE