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Guangdong Mingzinc Technology Co.

Mobile/Whatsapp: +86-13817961199 QQ : 783217385

Website:www.chinesepowersupply.com www.mingzinc.com

EMAIL:mingzinc@mingzinc.com

Factory #1 ADD: 208-210, Unit 3, Building 4, No. 111, Hongtu Road, Nancheng Street, Dongguan City, Guangdong Province, China.

MAC50-150W Series AC DC Converter-IDEALPLUSING

I. MODELS LIST

Single Channels Ouput

Models	Input voltage (Vac)	Input voltage (Vac)	Output voltage	Output current(A)	Ripple and noise(mv)	Efficiency (Typ)
MAC100-220S05	220VAC	176-264	05VDC	20A	80	83%
MAC125-220S12	220VAC	176-164	12VDC	10.4A	120	84%
MAC150-220S24	220VAC	176-264	24VDC	6.25A	200	85%
MAC150-220S28	220VAC	176-264	28VDC	5.36A	280	85%
MAC150-220S48	220VAC	176-264	48VDC	3.1A	300	85%

Dual Channels Ouput

Models	Input voltage (Vac)	Input voltage (Vac)	Output voltage (Vdc)	Output current(A)	Ripple and noise(mv)	Efficiency (Typ)
MAC100-220D05&12	220VAC	176-264	05&12VDC	10A&4A	100&120	83%
MAC120-220D05&24	220VAC	176-264	05&24VDC	4&4	80&200	83%
MAC150-220D12&24	220VAC	176-264	12&24VDC	6&3.25	120&200	84%
MAC150-220D05&28	220VAC	176-264	05&28VDC	2&5	50&280	83%

II. FEATURES

1	Broadband noise filter of input
2	Surge suppress circuit of input
3	Comply with UL 1950,IEC950 safety regulation
4	Attractive outline design
5	Terminal connection method

Condition: All specifications are tested under the room temperature 25 °C, Normal input voltage and Pure Negative Normal Load

III. INPUT CHARACTERISTIC

Rated value(VAC)	Voltage Range(VAC)
220 VAC	176-264 VAC

IV. OUTPUT CHARACTERISTIC

Parameter	Value
Power	50-150W
Output Voltage	5-48VDC
Output Current	3-20A
Line Regulation<main>	±0.5%
Load Regulation<main>	±0.5%
Voltage Set-point Accuracy	±2%
Output Current Limiting	120%(Typ)

V. PROTECTIVE CHARACTERISTIC

1	Input under voltage protection
2	Input over voltage protection
3	Over temperature protection
4	Output over current protection
5	Output short circuit protection

GENERAL CHARACTERISTIC

Parameter	Value
Switching Frequency	100-200KHz
Isolation Resistance	200MΩ

Isolation Voltage

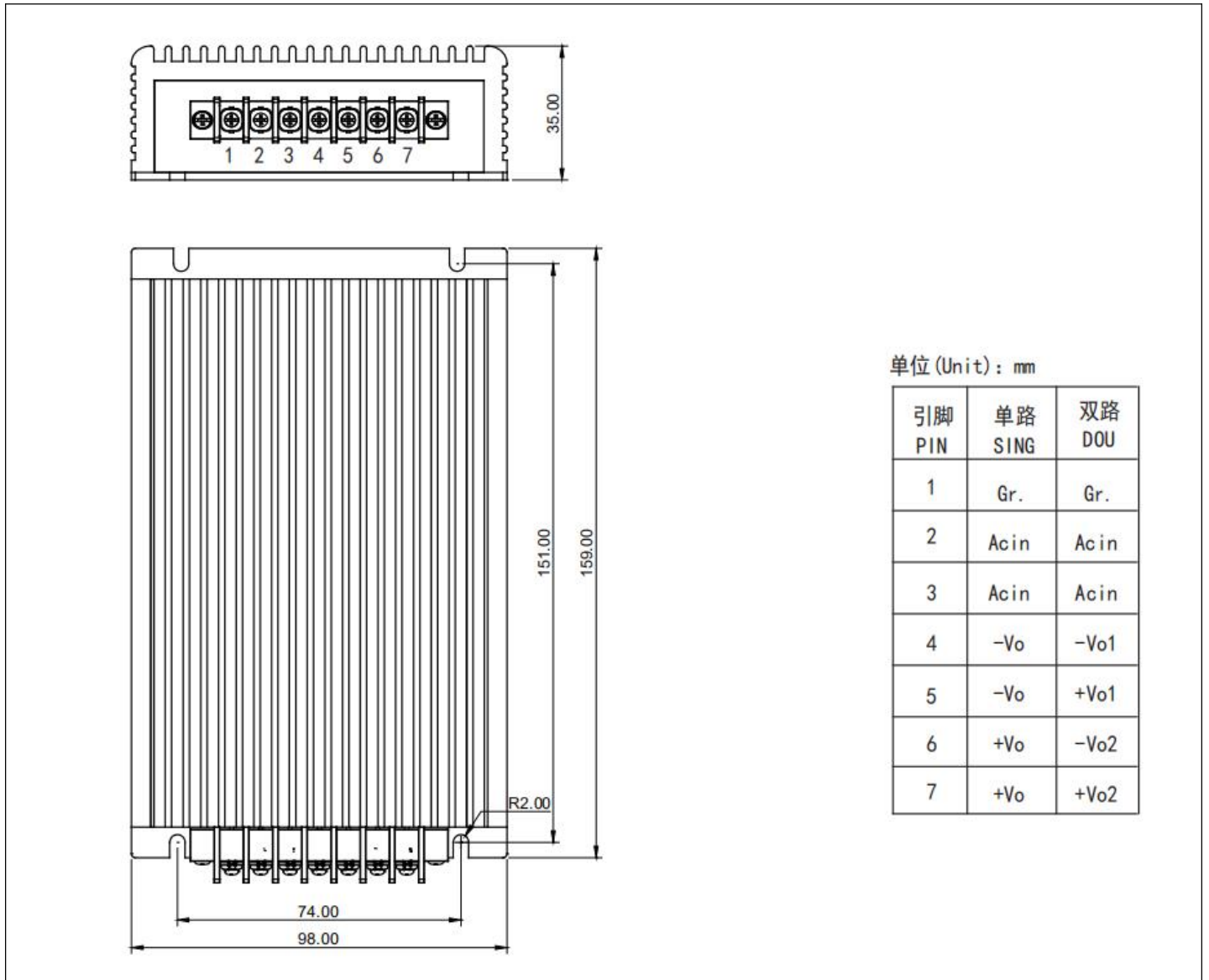
Parameter	Value
Input-Output	>1500VAC/1 min leakage current <5mA
Input-Case	>1500VAC/1 min leakage current <5mA
Output-Case	>500VDC/1 min
Main-Vice	>500VDC/1 min

Environmental Characteristics

Parameter		Value
Case Temperature	Industry	-25 – +85°C
	Military I	-40 – +85°C
	Military II	-55 – +85°C

Storage Temperature	Industry	-45 – +105°C
	Military I	-55 – +105°C

VI. MECHANICAL DRAWING AND PIN DEFINITION



VII. REFERENCE PICTURES

