

Dimensions: 101.6(L)x50.8(W)x27(H) mm

## Features

- High power density
- Universal input range
- Convection cooled
- RoHS compliance
- 3 year warranty
- Over voltage protection
- Overload protection
- Short circuit protection

## Safety Standards



EN 60950 (Marking)

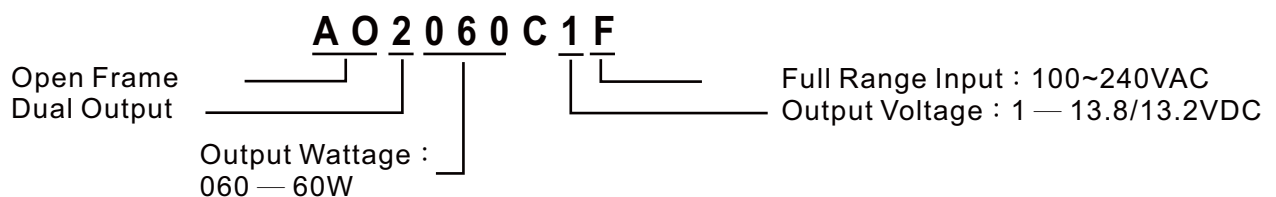
## EMC Standards

EN55011	Class B
EN55022	Class B
EN61000-4-2	Level 3
EN61000-4-3	Level 3
EN61000-4-4	Level 3
EN61000-4-5	Level 3
EN61000-4-6	Level 3
EN61000-4-8	Level 3
EN61000-4-11	Level 3

## Model List

Model	O/P Voltage	Loading			Ripple Noise	Efficiency	Over Voltage Protection
	Adjustment	Min.	Rated	Max.			
AO2060C1F	+13.8VDC±10%	0A	2.5A	2.5A	100mVp-p	80%	15~17VDC
	+13.2VDC -----	0A	1.5A	1.5A			-----

## Model Encoding



## Specification

General		
Switching Frequency		67k Hz
Isolation Voltage	Input-Output	3000 VAC/4242 VDC
	Input-FG	1500 VAC/2121 VDC
	Output-FG	500 VAC/710 VDC
Isolation Resistance		100MΩ when Input-Output @500VDC

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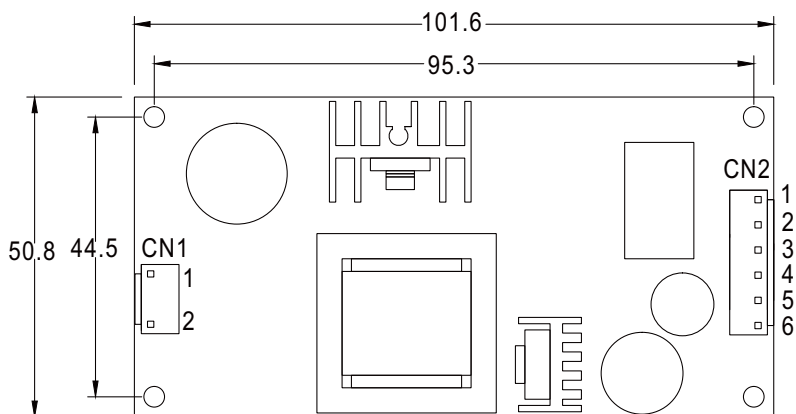
## Specification

General		
Operating Temperature	-40°C ~50°C ambient	
Derating	2.5% per degree from 50°C to 70°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	5%~95% RH, Non-condensing.	
Temperature Coefficient	±0.04% of voltage per °C	
MTBF	60,000hrs Min. Per MIL-HDBK-217F, 25°C GB	
Altitude During Operation	2000m	
Installation position	Vertical	
Vibration	Random vibration, 10~500Hz, 3 axise	
Input		
Input Voltage	100~240VAC/120~370VDC	
Input Frequency	47~400 Hz	
Inrush Current (cold start)	22A/115VAC 44A/230VAC	
Rated Input Current	1.8A Max., Vi=100~240VAC	
Leakage Current	Input-output 0.25mA, Input-FG 3.5mA	
Output		
Output Voltage accuracy	±1%	
Minimum Load	0	
Line Regulation	±1%, measuring from low line to high line at rated load.	
Load Regulation	±1%, measuring from 20% to 100% of rated load at 230VAC input.	
Voltage Trim Range	±10%	
Rated Continuous Loading	2.5A@13.8VDC/1.5A@13.2VDC	
Hold Up Time	25mS Min., Full load@230VAC.	
Turn On Time	330mS	
Rise Time	10mS	
Fall Time	25mS	
Transient Response	Recovery Time	2mS, Load change 50% to 100%
	Voltage Deviation	5%, Load change 50% to 100%
Efficiency	See model list, measuring at rated load and 230VAC input.	
Ripple and Noise	See model list, measuring by using a 0.1μF/630V metalize capacitor and a 47μF electrolytic capacitor parallel on the test point, at rated load and 230VAC input.	

## Specification

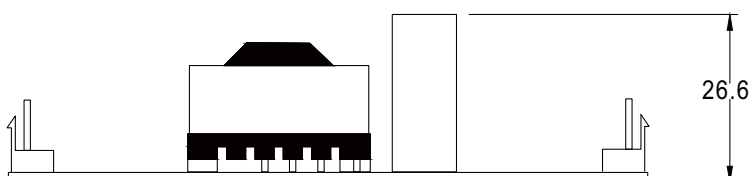
Protection	
Input Fuse	2A/250V
Internal Surge Load Protection	Varistor, IEC 61000-4-5
Short Circuit Protection	Autorecovery
Over Voltage Protection	Autorecovery
Rated Over Load Protection	110~150%
Overload protection	Power limited
Battery low voltage protection	For protect battery over-discharge and system stable, AO2060C1F will cut off battery source while battery voltage under 10.5V.
Additional Functions	
Back-up	External battery supply back-up power source for keeping DC output stable while AC failed.
Battery low signal	High: Bat. V>11V, Low: Bat. V<11V
AC OK signal	High: AC OK, Low: AC fail.

## Mechanical Details



## Terminal Allocation

Designation		Description
CN1	1	Line
	2	Neutral
CN2	1	Bat. low
	2	AC OK
	3	Bat (-)
	4	Bat (+)
	5	DC (+)
	6	DC (-)



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