



Dimensions: 160(L)x95(W)x38(H) mm

Features

- High power density
- Convection cooled
- RoHS compliance
- 3 year warranty
- Great reliability
- Multiple mounting solution
- Over voltage protection
- Overload protection
- Short circuit protection

Safety Standards



EN 62368 (Meet)



UL 62368 (Approval)

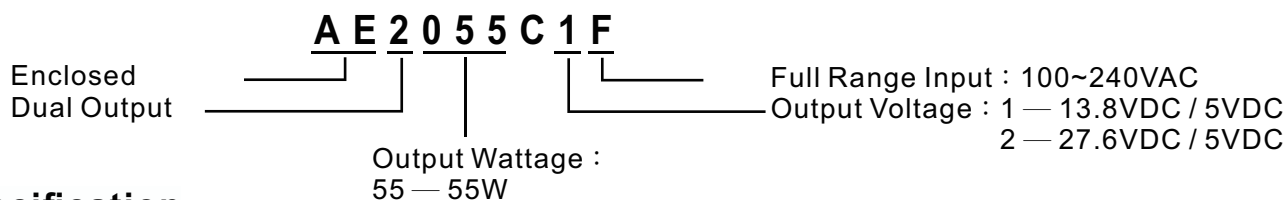
EMC Standards

EN55032	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 Adjustment	Min.	Loading Rated	Peak	Ripple Noise	Line Reg.	Load Reg.	Eff.	Over Voltage Protection
AE2055C1F	+13.8VDC±10%		2.5A	3.5A	100mVp-p	±1%	±1%		15~17VDC
	+5.0VDC -----	0A	3.0A	4.0A	100mVp-p	±3%	±3%	72%	-----
	+13.2VDC -----		0.23A	0.23A	250mVp-p	-----	-----		-----
AE2055C2F	+27.6VDC±10%		1.25A	1.5A	200mVp-p	±1%	±1%		30~34VDC
	+5.0VDC -----	0A	3.0A	4.0A	100mVp-p	±3%	±3%	72%	-----
	+27.0VDC -----		0.16A	0.16A	250mVp-p	-----	-----		-----

Model Encoding



Specification

General

Switching Frequency		85kHz
Isolation Voltage	Input-Output	3000VAC / 4242VDC
	Input-FG	1500VAC / 2121VDC
	Output-FG	500VAC / 710VDC

Website: <http://www.acro-powers.com/>
E-mail: service@acro-powers.com.tw
Tel: +886-2-22675015 Fax: +886-2-22674939



Specification**General**

Isolation Resistance	100M Ω when Input-Output @500VDC
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	$\pm 0.04\%$ of output voltage per °C
MTBF	60,000hrs Min. Per MIL-HDBK-217F, 25°C GB
Attitude During Operation	2000m
Vibration	Random Vibration, 10~2000Hz. 3 axis

Input

Input Voltage	100~240VAC/120~370VDC
Input Frequency	47~63Hz
Inrush Current (cold start)	22A/115VAC, 44A/230VAC
Rated Input Current	1.5A Max., $V_i=100\sim 240VAC$
Leakage Current	Input-output 0.25mA, Input-FG 3.5mA

Output

Output Voltage accuracy		±1%
Minimun Load		0%
Line Regulation		See model list, measuring from low line to high line rated load
Load Regulation		See model list, measuring from 20% to 100% of rated load 230VAC input
Voltage Trim Range		±10%
Rated Continuous Loading		See model list
Hold Up Time		35mS Min., Full load@230VAC.
Turn On Time		350mS
Rise Time		10mS
Fall Time		25mS
Efficiency		See model list, measuring at rated load and 230VAC input.
Transient Response	Recovery time	2mS, Load Change 50% to 100%
	Voltage Deviation	5%, Load change 50% to 100%
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

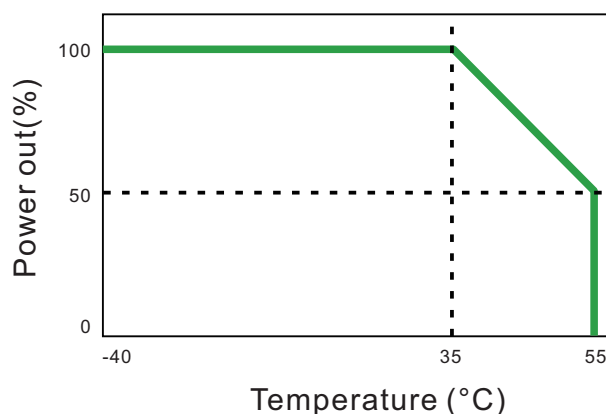
Protection

Input Fuse	2A/250V
Internal Surge Load Protection	Varistor, IEC6100-4-5
Degree of Protection	IP20
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, AE2055CF Series will cut off battery source

Additional Functions

Back-up	External battery supply back-up power source for keeping DC output stable when AC failed
AC input indicator	connector for external LED, output current is limited at 10mA

Derating Curve



Mechanical Details

