



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
- Various I/O solution for customer's application

Safety Standards



EN 60950 (Marking)

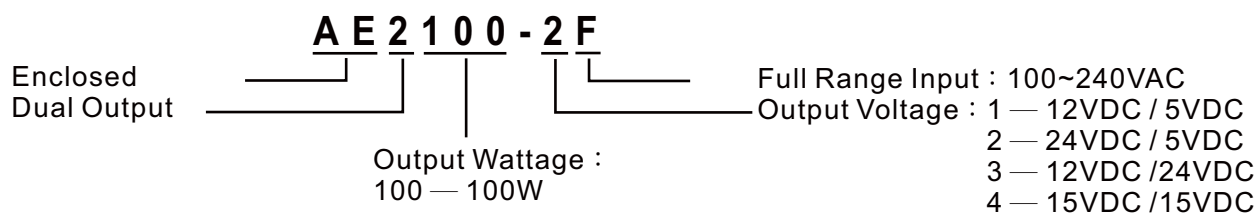
EMC Standards

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 Adjustment	Min.	Loading Rated	Max.	Ripple Noise	Line Reg.	Load Reg.	Efficiency	Over Voltage Protection
AE21001F	+12VDC±10%	0A	7.0A	8.0A	100mVp-p	±1%	±1%	79%	14~16VDC
	+5VDC -----		3.0A	3.0A	50mVp-p	±1%	±3%		-----
AE21002F	+24VDC±10%	0A	3.5A	4.0A	150mVp-p	±1%	±1%	81%	27~30VDC
	+5VDC -----		3.0A	3.0A	50mVp-p	±1%	±3%		-----
AE21003F	+12VDC±10%	0A	4.0A	8.0A	100mVp-p	±1%	±1%	80%	14~16VDC
	+24VDC -----		2.2A	2.2A	50mVp-p	±1%	±2%		-----
AE21004F	+15VDC±10%	0A	3.7A	6.0A	100mVp-p	±1%	±1%	80%	18~20VDC
	+15VDC -----		3.0A	3.0A	100mVp-p	±1%	±2%		-----

Model Encoding



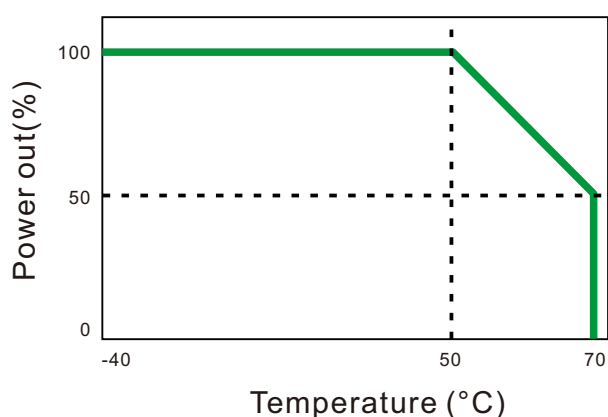
Specification

General		
Switching Frequency		85k Hz
Isolation Voltage	Input-Output	3000 VAC/4242 VDC
	Input-FG	1500 VAC/2121 VDC
	Output-FG	500 VAC/710 VDC
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
Altitude During Operation		2000m
Installation position		Vertical
Vibration		Random vibration, 10~2000Hz, 3 axise
Input		
Input Voltage		100~240VAC/120~370VDC
Input Frequency		47~63 Hz
Inrush Current (cold start)		22A/115VAC 44A/230VAC
Rated Input Current		2.5A Max., Vi=100~240VAC
Leakage Current		Input-output 0.25mA, Input-FG 3.5mA
Output		
Output Voltage accuracy		$\pm 1\%$
Minimum Load		0%
Line Regulation		See model list, measuring from low line to high line at rated load.
Load Regulation		See model list, measuring from 20% to 100% of rated load at 230VAC input.
Voltage Trim Range		$\pm 10\%$
Rated Continuous Loading		See model list
Hold Up Time		25mS Min., Full load@230VAC.
Turn On Time		1500ms
Rise Time		15ms
Fall Time		25mS
Transient Response	Recovery Time	2mS, Load change 50% to 100%
	Voltage Deviation	5%, Load change 50% to 100%

Specification

Output	
Efficiency	See model list, measuring at rated load and 230VAC input.
Ripple and Noise	See model list, measuring by using a 0.1 μ F/630V metalize capacitor and a 47 μ F electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
Protection	
Input Fuse	3.15A/250V
Internal Surge Load Protection	Varistor, IEC 61000-4-5
Degree of Protection	IP20
Short Circuit Protection	Autorecovery
Over Voltage Protection	Autorecovery
Rated Over Load Protection	160~200 %
Overload protection	Power limited

Derating Curve



Mechanical Details

