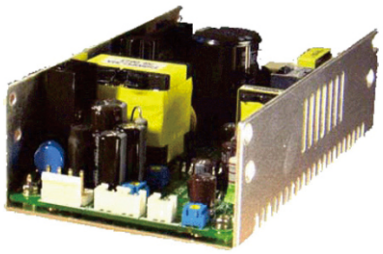
Acro Engineering Incorporation

AU1060A Series

60~90Watts, Single Output



Dimensions: 139.5(L)x80(W)x40.5(H) mm

Features

- High power density
- Universal input range
- Convection cooled
- RoHS compliance
- 3 year warranty
- Great reliability
- Over voltage protection
- Overload protection
- Short circuit protection
- Adjustable 3~30VDC output

Safety Standards

CE 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	Loading Min.	Loading Rated	Loading Max.	Ripple Noise	Efficiency	Over Voltage Protection
AU1060A-30F	+3~30VDC	0A	2A	2A	250mVp-p	75%	120% Max.
AU1090A-30F	+3~30VDC	0A	3A	3A	250mVp-p	78%	120% Max.

Model Encoding

A U 1 0 6 0 A - 3 0 F

- U-Frame Single Output
- Output Wattage : 060 — 60W, 090 — 90W
- Full Range Input : 100~240VAC
- Output Voltage : 3~30VDC

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

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

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Specification

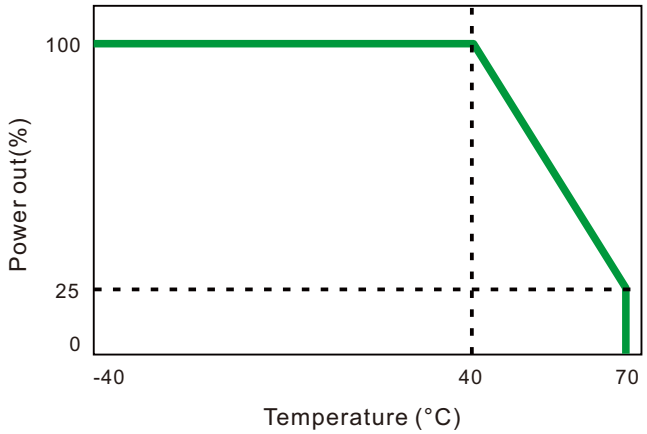
General		
Isolation Resistance		100MΩ when Input-Output @500VDC
Operating Temperature		-40°C ~40°C ambient
Derating		2.5% per degree from 40°C to 70°C
Storage Temperature		-40°C to +85°C
Relative Humidity		5%~95% RH, Non-condensing.
Temperature Coefficient		±0.04% of output voltage per °C
MTBF		50,000hrs 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		2.3 A, Vi=100~240VAC
Leakage Current		Input-output 0.25mA, Input-FG 3.5mA
Output		
Output Voltage accuracy		±2%
Minimum Load		0.1A
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.
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%
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

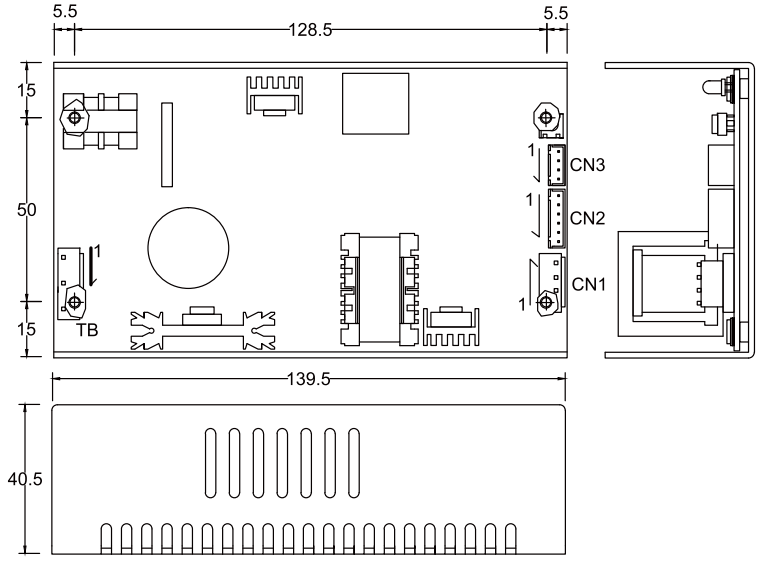
Protection	
Input Fuse	2A/250V
Internal Surge Load Protection	Varistor, IEC 61000-4-5
Short Circuit Protection	Autorecovery
Over Voltage Protection	Autorecovery
Rated Over Load Protection	110~150%
Overload protection	Current limited

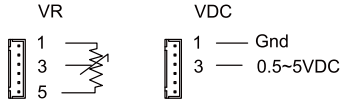
*Adjustable output range 3~30VDC is setting at gradient of 5VDC/1VDC via external 0.3~5VDC signal.

Derating Curve



Mechanical Details





Connection of external adjustment

Dimensions: 139.5(L)x80(W)x40.5(H) mm

Terminal Allocation

Designation		Description
TB	1	Line
	2	Neutral
	3	Earth
CN1	1&2	+30VDC
	3&4	GND
CN2		External adjust
CN3	1	+5VDC
	2	GND
	3&4	Inhibit (short)

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