

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







120 Watts AA20140 Series

Total Power: 70-120 Watts Input Voltage: 85-264 VAC # of Outputs: Quad

Electrical Specs



Input range 90-264 VAC Frequency 47-63 Hz

Inrush current 40 A max., cold start @ 25°C Efficiency 65% typical at full load

EMI filter FCC Class B conducted and radiated, CISPR 22 Class B conducted and radiated, EN55022 Class B

conducted and radiated, VDE 0878 PT3 Class B conducted and radiated.

Power factor 0.99 typical

Safety ground Leakage current

Remote sense

<2 mA @ 50/60 Hz, 254 VAC input

Output

Maximum power 70 W convection; 120 W with 30

CFM forced air

Adjustment range $\pm 5\%$ minimum on 3.3 V and 5 V

outputs

Hold-up time 15 ms @ 120 W load, 115 VAC input Overload protection Short circuit protection on all

outputs. Case overload protected @

110-145% above peak rating

Overvoltage protection 3.3 V output: $4.25 \text{ V} \pm .25 \text{ V}$

5 V output: $6.25 \text{ V} \pm .75 \text{ V}$, 20-35% above nominal output. Latching type recycle AC to reset.

Compensates for 0.5 V lead drop

min. Will operate without remote

sense connected.



Special Features

- Active power factor correction
- EN61000-3-2 compliance
- Remote sense on outputs one and two
- Industry-standard 4.25" x 7" footprint
- Adjustable main outputs
- Built-in Class B EMI filter
- Overvoltage protection
- · Overload protection
- Thermal overload protection

Environmental

Operating temperature: 0° to 50°C ambient; derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: Designed to meet EN61000-4, -2, -3, -4, -5, -6, Level 3

Humidity: Operating; non-condensing 20% to 90%

Vibration: 5-32 Hz sinewave .02" double amplitude

32-2 kHz sinewave 1 G peak

Storage temperature: -40° to 85°C Temperature coefficient: ±.04% per °C

MTBF per mil std 217E: >200,000 hours at full load and 30°C ambient conditions and full load

Safety

TUV	EN60950	9837006
UL	UL1950	E186249
CUL	CSA 22.2-234 Level 3	E186249
CB	Certificate and report	DE2-002056
CE	Mark (LVD)	

Asia (HK): 852-2437-9662



AMERICAS

5810 Van Allen Way Carlsbad, CA 92008 Telephone: 760-930-4600 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355

Units 2111-2116, Level 21 Tower1, Metroplaza 223, Hing Fong Road Fwai Fong, New Territories Hong Kong

Telephone: 852-2437-9662 Facsimile: 852-2402-4426



Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load¹	Regulation ²	Ripple P/P (PARD)³
AA20140	+3.3 V	0 A	8 A	16 A	18 A	±2%	50 mV
	+5 V	1 A	10 A	20 A	22 A	±3%	50 mV
	+12 V	0.2 A	1 A	2 A	3 A	±5%	120 mV
	-12 V	0 A	0.5 A	0.5 A	1 A	±10%	120 mV

- 1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
- 2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 4. Minimum loads are required.

Pin Assignments

Connector					
SK1	PIN 1 PIN 3	Neutral Live			
SK2	PIN 1-10 PIN 11 PIN 12 PIN 13 PIN 14-17 PIN 18-22 PIN 23 PIN 24		Sense		
Mating Connectors (SK1) AC Input:		Molex: 09-50-8031 (USA) Molex: 09-91-03500 (UK) PINS: 08-58-0111			
(SK2) DC	Output:	Molex:	Right angle 39-30-1240 or 39-29-1248 or Vertical 39-28-1243		

Astec Connector Kit #70-841-013, includes all of the above.

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance ±.02".
- 3. Warranty: 1 year
- 4. Weight: 1.38 lb. / .63 kg



