



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!



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



15-115 Watts LINEARS

ACV/ATV Series



Special Features

- 100% burn-in
- 100% vacuum varnish
- Impregnated transformer
- Cross references with other manufacturers
- Installation instructions/ specification sheet with each unit
- World wide AC input voltage taps
- Built in OVP on 5V output

Options:

Overvoltage protection: SCR crowbar module, 6.2 to 34 V

Environmental & Safety

Operating temperature:

0°C to 50°C (derate at 40% at 70°C)

Storage temperature: -55°C to +85°C

Temperature coefficient:

±0.01% per degree Celsius, typical

Cooling: Natural convection

Safety

TUV EN60950 (IEC950)

UL UL1950

CSA CSA22.2 950-M89

CSA22.2 234-M90

CE Mark

Designed to meet UL544 specifications.

Total Power: 15-115 Watts
Input Voltages: 100-240 VAC
No. of Outputs: 1-3

Electrical Specs

Input

AC nominal	100/120/220/230/240 VAC field selectable
Frequency	47 - 63 Hz(single phase). Derate 10% for 50Hz.
Efficiency	Up to 60%; 40% typical
Fusing	External; see chart

Output

Line regulation	0.05% for 10% line change (entire operating range)
Load regulation	0.05% for 50% load change
Voltage adjust	± 5% min. all outputs
Ripple	RMS: 2 mV, P-P: 3 mV
Stability	0.05 % for 24 hours after warm-up
Overshoot	None
Transient response	50 µsec at 50% load changes
EMI-filter	FCC-Class B & VDE0871 Level B
Remote sense	Up to 0.5 V-total cable drop; all singles, some multiples
Overload protection	Current foldback with automatic recovery
Overvoltage protection	Standard on all 5V output; factory set at 6.2±0.4V. Other outputs use optional A-OVP-1
Leakage current	Less than 50 µA
Shock.	MIL STD 810C, 516.2 V, 24"
Vibration	MIL STD 810C, 514.2, X AW

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Ordering Information

Nominal Output Voltage	Adj. Range $\pm$ V	Max Current 50°C	Case Size	Model Number
Single Output				
5 V	0.25	3.0 A	A	ACV5N3-1
5 V	0.25	6.0 A	B	ACV5N6-1
5 V	0.25	9.0 A	C	ACV5N9-1
5 V	0.25	12.0 A	D	ACV5N12-1
12 V	0.60	1.7 A	A	ACV12N1.7
12 V	0.60	3.4 A	B	ACV12N3.4
12 V	0.60	5.0 A	C	ACV12N5
12 V	0.60	6.8 A	D	ACV12N6.8
15 V	0.75	1.5 A	A	ACV15N1.5
15 V	0.75	3.0 A	B	ACV15N3
15 V	0.75	4.5 A	C	ACV15N4.5
15 V	0.75	6.0 A	D	ACV15N6
24 V	1.20	1.2 A	A	ACV24N1.2
24 V	1.20	2.4 A	B	ACV24N2.4
24 V	1.20	3.6 A	C	ACV24N3.6
24 V	1.20	4.8 A	D	ACV24N4.8

Dual Output

+5 V ^{1,2}	0.25	3.0 A	C	ACV101
+12 to +15 V ¹	0.60	1.5 to 1.2A		
+5 V ^{1,2}	0.25	6.0 A	D	ACV103
+12 V ^{1,2}	0.60	3.4 A		
$\pm$ 12 V	0.60	1.0 A	DA	ACV12D1
$\pm$ 12 V	0.60	1.7 A	DB	ACV12D1.7
$\pm$ 12 V ^{1,2}	0.60	3.4 A	D	ACV12D3.4
$\pm$ 15 V	0.75	0.8 A	DA	ACV15D0.8
$\pm$ 15 V	0.75	1.5 A	DB	ACV15D1.5
$\pm$ 15 V ^{1,2}	0.75	3.0 A	D	ACV15D3.0

Triple Output

5 V ^{1,2}	0.25	2.0 A		
12 to 15 V ¹	0.60	0.4 to 0.32A	DA	ATV251
12 to 15V ¹	0.60	0.4 to 0.32A		
5 V ^{1,2}	0.25	3.0 A		
+12 to +15 V	0.60	1.0 to 0.8A	TB	ATV351
-12 to -15 V	0.60	1.0 to 0.8A		
5 V ²	0.25	6.0 A		
+12 to +15 V ²	0.60	1.0 to 0.8A	D	ATV401
-12 to -15 V ²	0.60	1.0 to 0.8A		
5 V ^{1,2}	0.25	6.0 A		
+12 to +15 V	0.60	1.8 to 1.4A	TC	ATV451
-12 to -15 V	0.60	1.8 to 1.4A		
5 V ^{1,2}	0.25	9.0 A		
+12 to +15 V	0.60	1.8 to 1.4A	TE	ATV551
-12 to -15 V	0.60	1.8 to 1.4A		
5 V	0.25	3.0 A		
-5	1.20	0.5 A	TC	ATV101
+24 ¹	1.20	3.0 A		

¹ Isolated output.
² With remote sense.

Option	Model
Universal Overvoltage Protection Module	A-OVP-1

Recommended Trigger Voltages for OVP Module

Power Supply Output Voltage	Suggested OVP Trigger Voltage
5	6.2
12	14
15	17
24	27
DUAL $\pm$ 12	27
DUAL $\pm$ 15	33

AC-Input Transformer Tap Connection

Input Voltage	Connect	Power to
100V	1-3 / 2-4	1 & 5
120V	1-3 / 2-4	1 & 4
220V	2-3	1 & 5
230V	2-3	1 & 4
240V	2-3	1 & 4

Suggested External Fuses

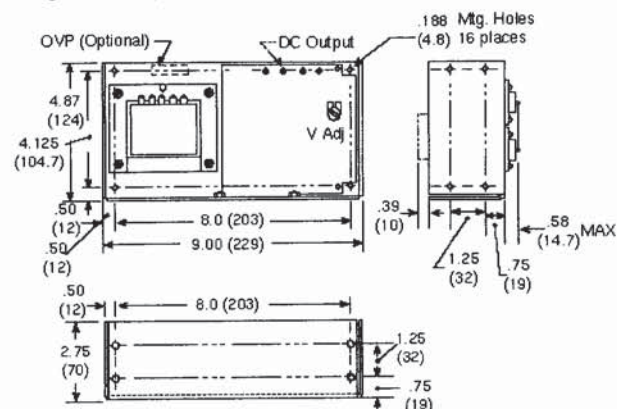
Case	115 VAC	230 VAC
A	1 A	0.5 A
B	1.5 A	0.75 A
C	2 A	1 A
D	3 A	1.5 A
DA	1 A	0.5 A
DB	1.5 A	0.75 A
TB	2 A	1 A
TC	2 A	1 A
TE	3 A	1.5 A

ACV / ATV

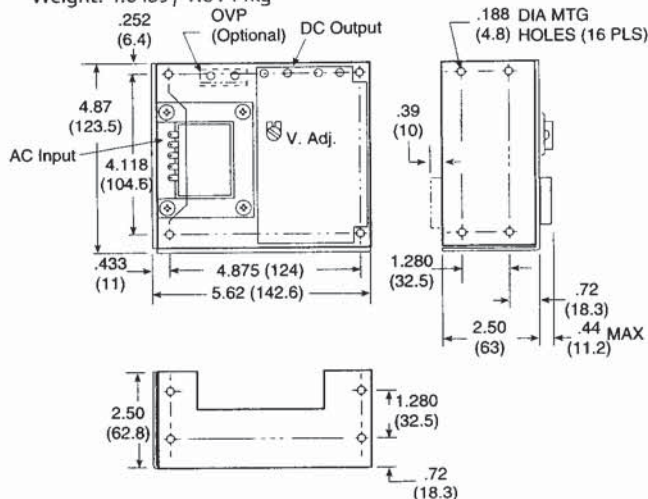
Weight: 2.43 lbs / 1.1022kg



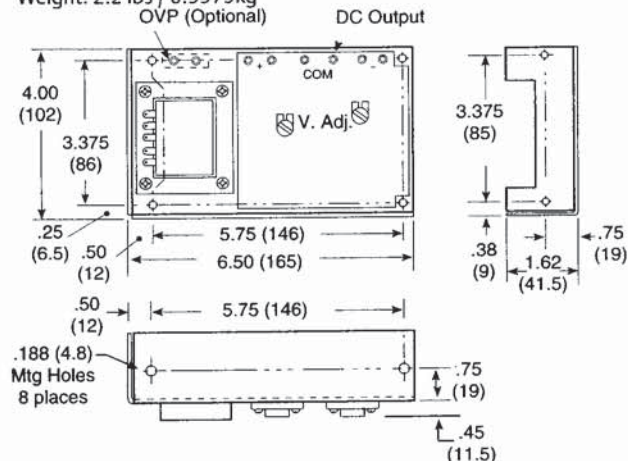
Weight: 7.5 lbs / 3.4019kg



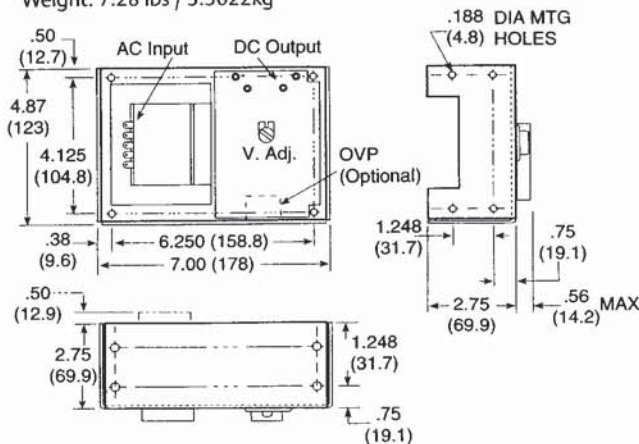
Weight: 4.0 lbs / 1.8144kg



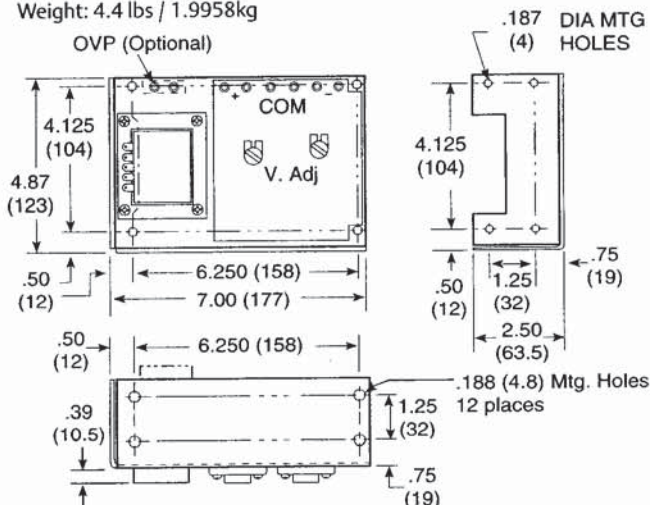
Weight: 2.2 lbs / 0.9979kg



Weight: 7.28 lbs / 3.3022kg



Weight: 4.4 lbs / 1.9958kg



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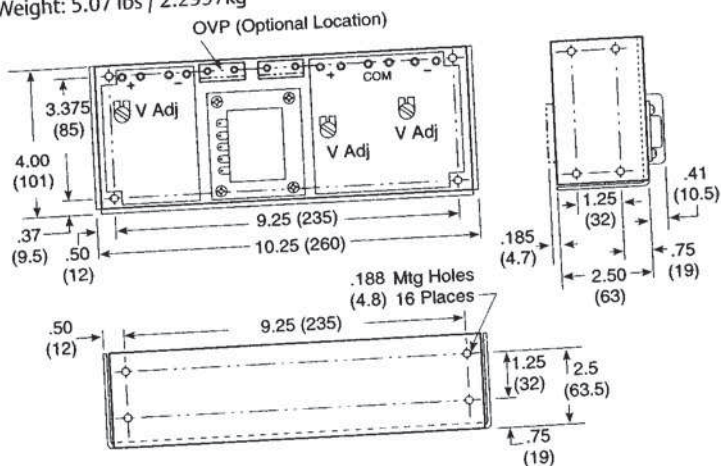
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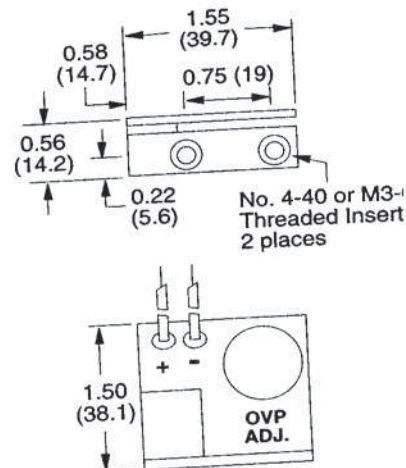
Case TB

Weight: 5.07 lbs / 2.2997kg



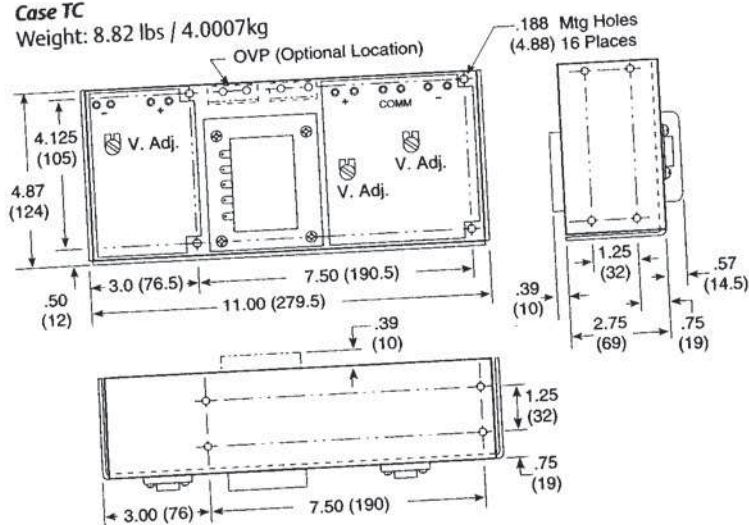
Model No. A-OVP-1

Weight: 0.05 lbs / 0.0227kg



Case TC

Weight: 8.82 lbs / 4.0007kg



Case TE

Weight: 8.82 lbs / 4.0007kg

