

Cascade Audio Engineerings **APS Power Supplies** are ideally suited for the mobile environment. These power supplies feature regulated and filtered outputs which allow for clean audio demonstrations without the slightest hint of noise. Their low profile design allows for convenient mounting under a display vehicle or behind a display board. **APS** power supplies may be used with or without a battery. When combined with a high quality battery, **APS** units can supply transient surges up to 1000 amps. For installations where use of a battery is not possible, Cascade Audio's CAP1 (one Farad) or CAP0.5 (one-half Farad) capacitors may be used. The following APS models are U.L. Listed: APS-15, APS-30, APS45, APS-55, APS-75. All models except the APS-100 offer dual voltage output. (13.4VDC - 14.4VDC)



### Virtually Silent Operation

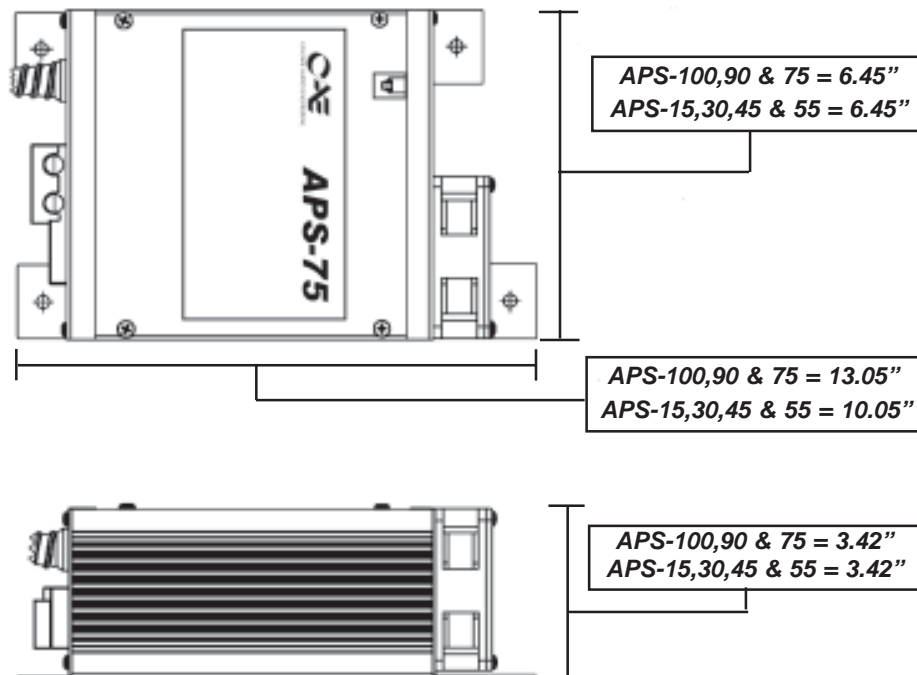
All **APS Power Supplies** utilize an advanced switching design. There is no low frequency transformer hum. Every unit is equipped with a cooling fan that is virtually silent. **APS Power Supplies** all feature thermal control circuitry that engages the fan only when internal temperatures require it (typically 75% of full load).

### Small Compact Size

The switch mode technology utilized in **APS Power Supplies** boasts *86% efficiency*. This superior design results in cooler operating temperatures and compact size. Up to six of these lightweight power supplies (identical models only) can be connected in parallel for even greater current capability.

### Suggested Applications:

- Audio Display, Demo & Show Vehicles
- Marine & Recreational Vehicles; Battery maintenance & storage
- Retail Store Displays
- Industrial Applications (available in 24V output)
- Communications



Installation Instructions Available at [www.cascadeaudio.com](http://www.cascadeaudio.com)

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## APS Power Supply Specifications: 2006

APS Series Models	APS-15	APS-30	APS-45	APS-55	APS-75	APS-90	APS-100
U.L. Listed	Yes	Yes	Yes	Yes	Yes	No	No
DC Output Voltage (No Load) approx.	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)
Output Voltage Tolerance (No Load)	+/- 0.7%	+/- 0.7%	+/- 0.7%	+/- 0.7%	+/- 0.7%	+/- 0.7%	+/- 0.7%
Output Amperage, Max Continuous	15 Amps	30 Amps	45 Amps	55 Amps	75 Amps	90 Amps	100 Amps
Output Voltage (Full Load) approx	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)
Maximum Output Amps, Single Surge	15 Amps	30 Amps	45 Amps	55 Amps	75 Amps	90 Amps	100 Amps
Maximum Power Output, Continuous	200 Watts	400 Watts	600 Watts	740 Watts	1000 Watts	1200 Watts	1340 Watts
Maximum Ripple and Noise	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms
Input Voltage Range	96-140 A.C.	96-140 A.C.	96-140 A.C.	96-140 A.C.	96-140 A.C.	96-140 A.C.	96-140 A.C.
Input Voltage Frequency	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
Maximum AC Current @ 96VAC	4 Amps	8 Amps	12 Amps	15 Amps	18 Amps	22 Amps	24 Amps
Typical Efficiency	>80%	>80%	>80%	>80%	>80%	>80%	>80%
Max Inrush Current, Single Cycle	10 Amps	16 Amps	20 Amps	20 Amps	22 Amps	24 Amps	24 Amps
Short Circuit Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overload Protection	>100%	>100%	>100%	>100%	>100%	>100%	>100%
Line Regulation	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms
Load Regulation	<1%	<1%	<1.5%	<1.5%	<1.5%	<1%	<1%
Fan Control *	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
Over Temperature	Off @ 80c	Off @ 80c	Off @ 80c	Off @ 80c	Off @ 80c	Off @ 80c	Off @ 80c
Working Temperature Range	0-40c	0-40c	0-40c	0-40c	0-40c	0-40c	0-40c
Storage Temperature	(-20 to 80c)	(-20 to 80c)	(-20 to 80c)	(-20 to 80c)	(-20 to 80c)	(-20 to 80c)	(-20 to 80c)
Dimensions	7"X 6.5"X 3.5"	7"X 6.5"X 3.5"	7"X 6.5"X 3.5"	7"X 6.5"X 3.5"	10"X 6.5"X 3.5"	10"X 6.5"X 3.5"	10"X 6.5"X 3.5"
Weight	6.2 lbs	6.88 lbs	6.92 lbs	6.92 lbs	7.8 lbs	7.8 lbs	7.8 lbs

All APS Power Supplies are "Dual Voltage" (13.4VDC / 14.4VDC) except for the APS-100 which is 13.4 VDC only

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