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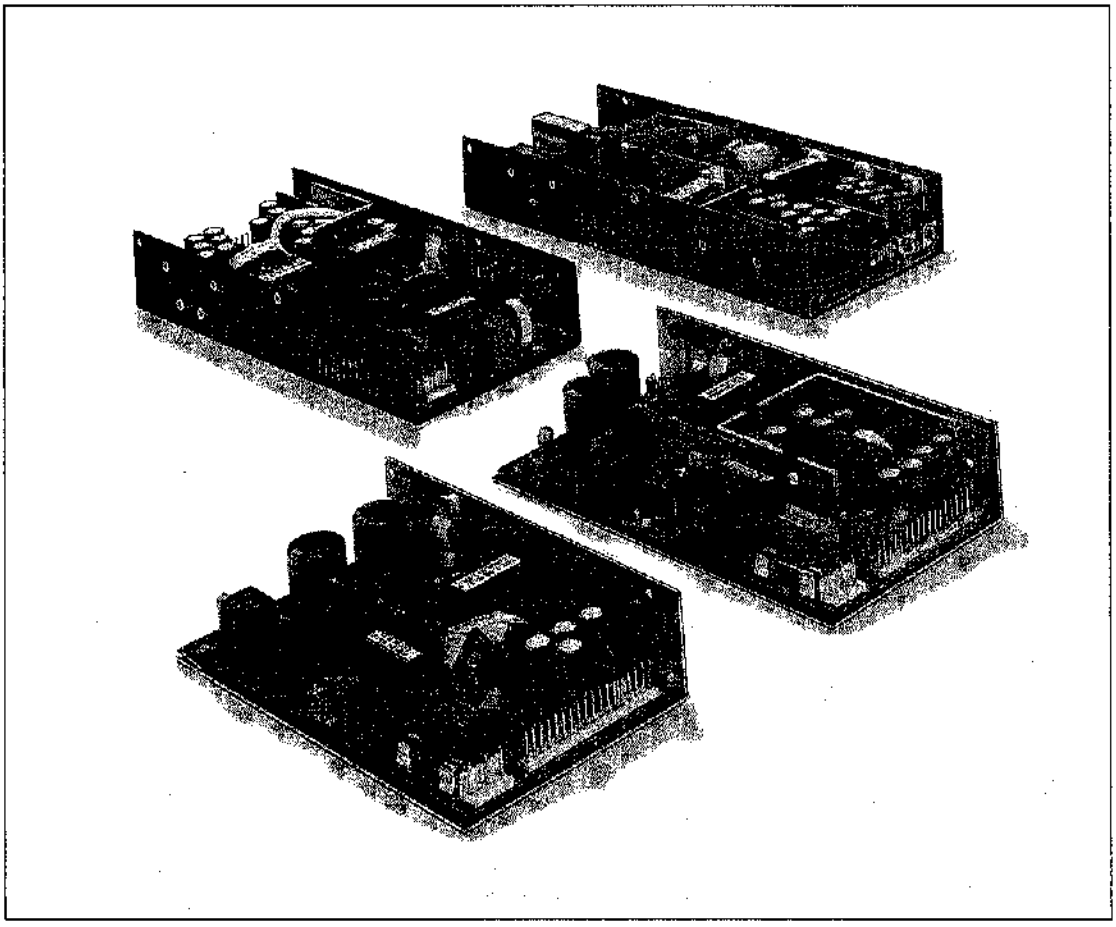
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AC-TO-DC POWER SUPPLIES
Lambda's SV Series



Low Cost Single & Multiple Output Power Supplies From 100W to 300W – With or Without PFC

Lambda's new SV Series is the first family of 100W to 300W power supplies with both auto-selecting AC input and power factor corrected AC input in the same mechanical package. This allows you to optimize system cost, features and assembly time by integrating the model that best suits your application. And because PFC and non-PFC models are form and fit compatible, the SV Series is a no-risk solution for systems that may require power factor selection in the future, but can't afford the expense of it now. In additon, superior value options give the user the opportunity to eliminate costs associated with functions that don't add value to a particular system.

The SV Series is available in 100W, 150W and 250W single output models, and 130W, 200W & 300W multiple output models, with all the standard features required for applications such as computer peripherals, point of sale equipment, and communications equipment.

SV Series Features

True Universal AC Input	Jumper-select, auto-select and power factor corrected AC input are available in one package, allowing the user to optimize system cost, features and assembly time.
Level B EMI	Conducted EMI to Level B for FCC & VDE simplifies filtering requirements on the system level.
Superior Value Options	Features such as covers and monitoring signals are optional, so you pay only for those options which add value to your system.
Low Profile	1.77" height allows optimal space allocation in systems utilizing 2" board pitch.
Worldwide Safety Agency Approvals	Safety agency approvals to UL1950, CSA234 M90, and EN60950, ensure compliance throughout the world.
System Interface Signals	AC Power Fail and DC Output Good Signals provide the capability for real time monitoring.
Rated for Convection and Fan Cooling	Dual rating system ensures reliable operation and thermal integrity of all components in any system...with or without fans.
Broad Offering	62 single, triple and quad output models from 100W to 300W allow you to choose a standard power solution that more closely matches your system requirements, driving down system cost.
Output Current Surge Capability	Ensures reliable performance with disc drives and motors.
Low Cost and Short Lead Time	Automated manufacturing techniques and domestic production allow for a competitively priced, fully featured unit with the industry's shortest lead time.

AC-TO-DC POWER SUPPLIES
SV Series Specifications

AC Input
line.....SV Models: 85-132VAC, 180-264VAC (auto-selecting input), 47-63 Hz. 110-220VAC jumper select input is available as an option (Option Code "A"). SVP Models: 90-132VAC, 187-264VAC (auto-selecting input), 47-63 Hz on 100-150W models. 85-265VAC, 47-63 Hz on 170-300W models.

Input Harmonic Current
All SVP models comply with IEC 555-2 and EN60555-2.

EMI
Conducted EMI conforms to FCC Part 15, Subpart J, Class B and VDE 0871, Curve B.

Input Transient Protection
IEEE C62.41-1991 location category A2 (A3 with external MOV's). IEC801, -2, -4, -5 Class 3.

DC Output Range
±5% user adjustable on single output models and on main output of multiples. Auxiliary outputs are fixed.

Regulated Voltage
line regulation.....1% from no load to full load on main output. 5% for 50% line variations on auxiliaries.
load regulation.....1% from no load to full load on main output. 5% for 50% load variation on auxiliaries.

Ripple and Noise
2% pk-pk typical.

Preload
25% preload required on main output of SVT115 and SVQ130, and on +12V auxiliary output of SVT170, SVT300, SVQ200, SVQ300. Preload may be shared on multiple outputs. Consult the factory for details.

Remote Sensing
Remote sense capability is provided on single output models and main outputs only. (0.5V Maximum IR drop across load cables.)

Inrush Current
75A typical for cold startup at 25°C.

Fusing
AC line is fused internally.

Overcurrent Protection
Limits output current to 140% (typical) of maximum rating on main output.

Short Circuit Protection
All outputs are protected from temporary short circuits (30 seconds on auxiliary outputs).

Overvoltage Protection
OV protection is provided on 5V single output models and main outputs of multiple output models. The unit will reset after input line is cycled if OV condition is removed.

Remote On/Off
Remote on/off is possible. Contact the factory for details.

Monitoring Signals
AC Power Fail and DC Output Good Signals (Open Collector, Conductance Signal) are provided standard. Signals can be deleted from the unit for OEM applications (Option Code "L").

Surge Current Capability
Auxiliary outputs are capable of providing a 10 second surge of three times the output current rating with a 50% duty cycle. Total power must always remain within package ratings.

Operating Temperature
0°C to +60°C with derating above +50°C.

Storage Temperature
–30°C +85°C.

Cooling
Ratings are provided for convection cooling and operation with external airflow.

Vibration
The SV Series meets MIL-STD-810E specifications for transportation.

Isolation Ratings
3000VRMS input to output (SELV Construction).
1500VRMS input to chassis ground.
500VRMS output to ground.

Input and Output Connections
Molex connectors, bussbars, quick-disconnect terminal strips. See the mechanical drawings for details.

Construction
L Chassis only for SVXX10X, SVXX15X, SVXX115, SVXX130.
U Chassis only for SVXX170, SVXX200, SVXX25 and SVXX300.
PC Board only construction is available as an option on the SVXX10X, SVXX115 and SVXX130 (Option Code "N"). Covers for units with chassis are available as an option (Option Code "Z").

Physical Data

Package Model	Weight Lbs. Net	Weight Lbs. Ship	Dimensions (inches)
SVS100	1.7	2.7	4.75 × 1.77 × 7.5
SVPS10	2.1	3.1	4.75 × 1.77 × 7.5
SVS150	2.2	3.2	4.75 × 1.77 × 8.5
SVPS15	2.9	3.9	4.75 × 1.77 × 8.5
SVT115, SVQ130	2.1	3.1	4.75 × 1.77 × 8.5
SVPT115, SVPQ130	2.8	3.8	4.75 × 1.77 × 8.5
SVT170, SVQ200	2.5	3.5	4.75 × 1.77 × 9.5
SVPT170, SVPQ200, SVPS25	2.9	3.9	4.75 × 1.77 × 9.5
SVT300, SVQ130	3.2	4.2	4.75 × 1.77 × 11.0
SVPT300, SVPQ300	3.7	4.7	4.75 × 1.77 × 11.0

Superior Value Options
The following features are optional and provide the opportunity to optimize the power supply for cost driven applications. Contact the factory for technical information and pricing on any option prior to ordering.

Option Code	Description	Price Adder
A	Jumper select 110/220VAC input (removes auto-select circuit for non-PFC units)	Consult Factory
N	PC Board only construction (SVPS100, SVPT115, SVPQ130 only)	Consult Factory
Z	Fully enclosed unit (adds vented cover)	$10.00

Safety Agency Approvals
Under evaluation for UL 1950, CSA22.2 #234-M90 and EN60950.

Guarantee
One year guarantee includes labor as well as parts. Guarantee applies to operation within published specifications and recommended application data at the end of one year.

Commercial Ratings Table – Triple Output

SW SERIES
- Lowest Cost Wide Range Input
- Industry Standard Footprint
- Meets FCC, VDE Class B EMI

ULTRAFLEX™ SERIES
- Compact Modular Power Supplies
- 1 to 10 Outputs
- 85-265VAC Wide Range Input
- Meets Level B EMI

PFC SERIES
- 3 to 5 Outputs
- Power Factor Corrected
- Meets Level B EMI
- 85-265VAC Wide Range Input

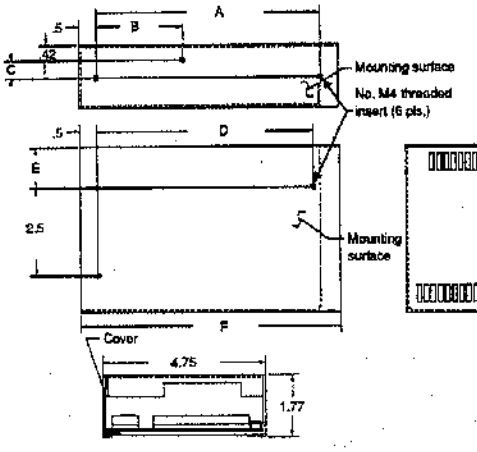
V AND Z SERIES
- Low Cost 110VAC and 110/220VAC Inputs
- PCB and Chassis Mount Construction
- Meets FCC and VDE Curve B

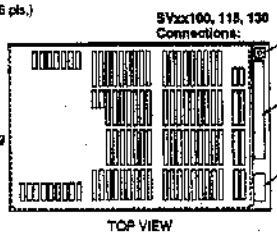
LW SERIES
- High Density, Low Profile
- 110/220 Universal Input
- Meets VDE Curve A

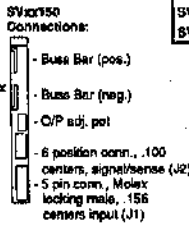
MAX POWER	OUTPUT 1	OUTPUT 2	OUTPUT 3	COMPLETE ELEC. SPEC. PG.	UNIT PRICE PER DELIVERED QUANTITY 1	10	25	50	MODEL
TRIPLE OUTPUT. 110VAC INPUT.									
5V, +12V, –12V OUTPUT									
15W	5V @ 2A	+12V @ 0.3A	–12V @ 0.2A	92	$ 64	$ 54	$ 50	$ 43	VT15-522
30W	5V @ 3A	+12V @ 1.2A	–12V @ 0.3A	92	78	71	65	55	VT30-522
5V, +15V, –15V OUTPUT									
15W	5V @ 2A	+15V @ 0.3A	–15V @ 0.2A	92	64	54	50	43	VT15-5FF
30W	5V @ 3A	+15V @ 1A	–15V @ 0.3A	92	78	71	65	55	VT30-5FF
TRIPLE OUTPUT. 110/220VAC INPUT.									
5V, +12V, –12V OUTPUT									
25W	+5V @ 3A	+12V @ 0.6A	–12V @ 0.3A	84	128	114	107	98	LWT-2H-522
30W	5V @ 2A	+12V @ 1.5A	–12V @ 0.3A	88	67	64	60	45	SWT30-522
40W	5V @ 3A	+12V @ 2A	–12V @ 0.3A	88	78	74	70	53	SWT40-522
50W	+5V @ 5A	+12V @ 1.2A	–12V @ 0.6A	84	166	147	139	127	LWT-3H-522
65W	5V @ 6A	+12V @ 2.5A	–12V @ 0.5A	88	95	90	86	64	SWT65-522
70W	+5V @ 8A	+12V @ 1.5A	–12V @ 1A	84	204	180	170	155	LWT-4HA-522
90W	5V @ 10A	+12V @ 3A	–12V @ 0.3A	92	184	168	152	130	ZT90-522
100W	5V @ 8A	+12V @ 4A	–12V @ 0.8A	88	135	128		91	SWT100-522
115W	5V @ 15A	+12V @ 4A	–12V @ 2A	80	178	160	144	130	SVT115-1
115W	5V @ 15A	+12V @ 4A	–12V @ 2A	80	223	200	180	162	SVPT115-1
170W	5V @ 20A	+12V @ 5A	–12V @ 1A	92	279	253	229	196	ZT170-522
170W	5V @ 22A	+12V @ 3.8A	–12V @ 1.5A	80	232	209	188	169	SVT170-1
170W	5V @ 22A	+12V @ 5A	–12V @ 3A	80	290	261	235	212	SVPT170-1
300W	5V @ 38A	+12V @ 6A	–12V @ 3A	80	388	349	314	282	SVPT300-1
300W	5V @ 38A	+12V @ 6A	–12V @ 3A	80	324	292	262	236	SVT300-1
500W	5V @ 75A	+12V @ 12A	–12V @ 4A	72	610	580	545	480	PFC0500-3AH-Z
750W	5V @ 110A	+12V @ 18A	–12V @ 7A	72	900	855	780	660	PFC0750-3AH-Z
1000W	5V @ 150A	+12V @ 24A	–12V @ 10A	72	950	905	830	715	PFC1000-3AH-Z
5V, +15V, –15V OUTPUT									
30W	+5V @ 3A	+15V @ 0.6A	–15V @ 0.3A	84	128	114	107	98	LWT-2H-5FF
30W	5V @ 3A	+15V @ 1A	–15V @ 0.3A	92	116	105	95	82	ZT30-5FF
50W	+5V @ 5A	+15V @ 1.2A	–15V @ 0.6A	84	166	147	139	127	LWT-3H-5FF
65W	5V @ 5A	+15V @ 2A	–15V @ 0.5A	92	139	127	114	98	ZT60-5FF
75W	+5V @ 8A	+15V @ 1.5A	–15V @ 1A	84	204	180	170	155	LWT-4HA-5FF
90W	5V @ 10A	+15V @ 2.5A	–15V @ 0.5A	92	184	168	152	130	ZT90-5FF
115W	5V @ 15A	+15V @ 4A	–15V @ 2A	80	178	160	144	130	SVT115-2
115W	5V @ 15A	+15V @ 2.5A	–15V @ 1A	80	223	200	180	162	SVPT115-2
170W	5V @ 22A	+15V @ 5A	–15V @ 3A	80	232	209	188	169	SVT170-2
170W	5V @ 22A	+15V @ 3.8A	–15V @ 1.5A	80	290	261	235	212	SVPT170-2
300W	5V @ 38A	+15V @ 8A	–15V @ 4A	80	310	279	251	226	SVT300-2
300W	5V @ 38A	+15V @ 6A	–15V @ 3A	80	388	349	314	282	SVPT300-2
5V, +12V, –5V OUTPUT									
30W	5V @ 2A	+12V @ 1.5A	–5V @ 0.3A	88	67	64	60	45	SWT30-525
40W	5V @ 3A	+12V @ 2A	–5V @ 0.3A	88	78	74	70	53	SWT40-525
60W	5V @ 5A	+12V @ 2.5A	–5V @ 0.5A	92	139	127	114	98	ZT60-525
65W	5V @ 6A	+12V @ 2.5A	–5V @ 0.5A	88	95	90	86	64	SWT65-525
100W	5V @ 8A	+12V @ 4A	–5V @ 0.8A	88	135	128	122	91	SWT100-525
TRIPLE OUTPUT. 180/250VAC INPUT.									
5V, +12V, –12V OUTPUT									
1500W	5V @ 200A	12V @ 20A	12V @ 10A	76	1412	1302	1250	1199	313AE5F-1010

SV Series Mechanical Drawings

SV100
SV115
SV130
SV150







Dimension / Model	A	B	C	D	E	F
SVxx100	6.5	2.5	.5	6.5	1.175	7.5
SVxx115	7.5	2.5	1.0	7.5	1.175	8.5
SVxx130	7.5	2.5	1.0	7.5	1.175	8.5
SVxx150	7.5	2.5	1.0	7.5	1.175	8.5

Net Weight / Model	with cover	without cover
SVS100	1.5	1.7
SVPS100	2.3	2.1
SVS115	2.3	2.1
SVQ130	2.3	2.1
SVPQ130	3.0	2.8
SVS150	2.4	2.2
SVPS150	3.1	2.9

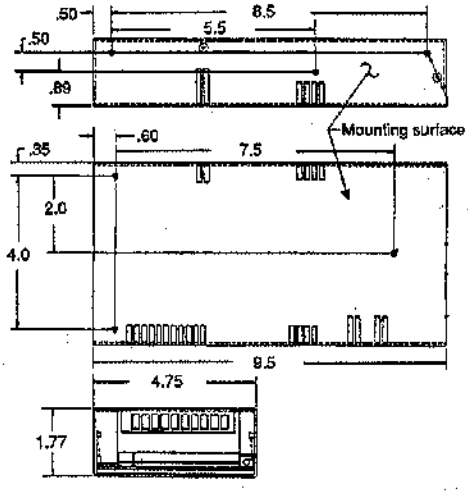
SVxx100, 115, 130:

	Molex Part No.	Amp Part No.
J1 Mating Connector Housing	09-50-8051	640250-5
J2 Mating Connector Housing	09-50-8180	1-640251-6
J1 & J2 Crimp Terminals	08-50-0106	640707-1

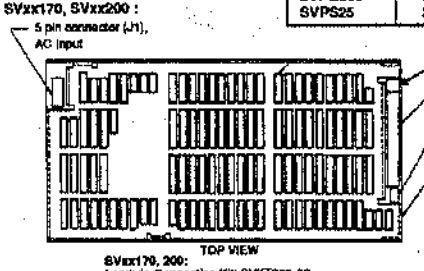
SVxx150:

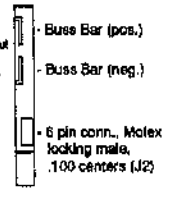
	Molex Part No.	Amp Part No.
J1 Mating Connector Housing	09-50-8051	640250-5
J2 Mating Connector Housing	22-01-3067	770602-6
J1 Crimp Terminals	08-50-0106	640707-1
J2 Crimp Terminals	08-50-0114	770666-1

SV170
SV200
SV250



Net Weight / Model	with cover	without cover
SVT170	2.9	2.5
SVPT170	3.2	2.9
SVQ200	2.8	2.5
SVPQ200	3.2	2.9
SVPS25	3.2	2.9





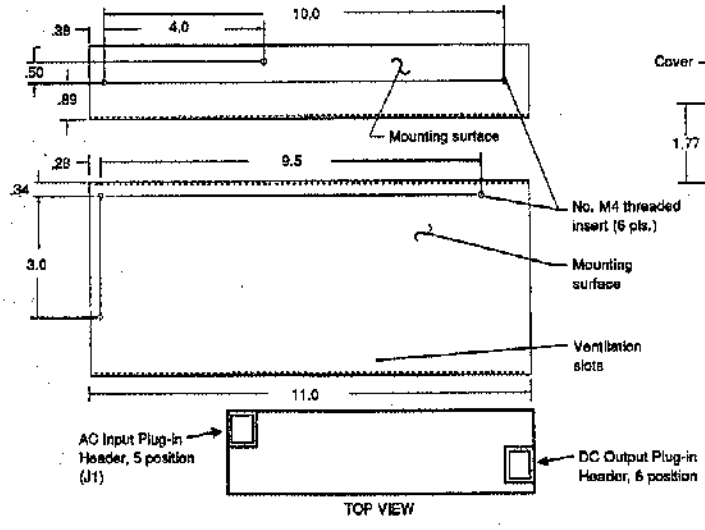
SVxx170, 200:
Lambda Connecting Kit: SVKT200-30

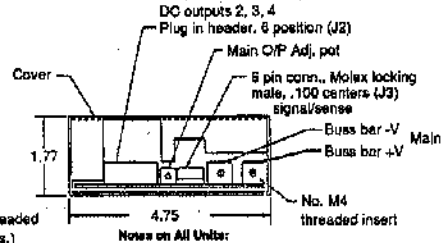
	Molex Part No.	Amp Part No.
J1 Mating Connector Housing	09-50-8051	640250-5
J2 Mating Connector Housing	09-50-8180	1-640251-6
J3 Mating Connector Housing	22-01-3047	770602-4
J1 & J2 Crimp Terminals	08-50-0106	640707-1
J3 Crimp Terminal	08-50-0114	770666-1

SVPS25:
Lambda Connecting Kit: SVKT25-10

	Molex Part No.	Amp Part No.
J2 Mating Connector Housing	22-01-3067	770602-6
J2 Crimp Terminal	08-50-0114	770666-1
J1 Mating Connector Housing	09-50-8051	640250-5
J1 Crimp Terminal	08-50-0106	640707-1

SV300





Notes on All Units:
1. Units are supplied standard without a cover.
2. All customer mounting screws are No. M4 and must not protrude into power supply by more than 1/4".
3. Dimensions are in inches (multiply by 24.5 for mm.)

SVxx300:
Lambda Connecting Kit: SVKT300-11

	Molex Part No.	Amp Part No.
J3 Mating Connector Housing	22-01-3067	770602-6
J3 Crimp Terminals	08-50-0114	770666-1

	Weco Part No.	PCD Part No.
J1 Mating Plug-in Header	10.808.005	ELFP05110
J2 Mating Plug-in Header	10.808.006	ELFP06110

Net Weight / Model	with cover	without cover
SVx300	3.5	3.2
SVPx300	4.0	3.7

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