ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

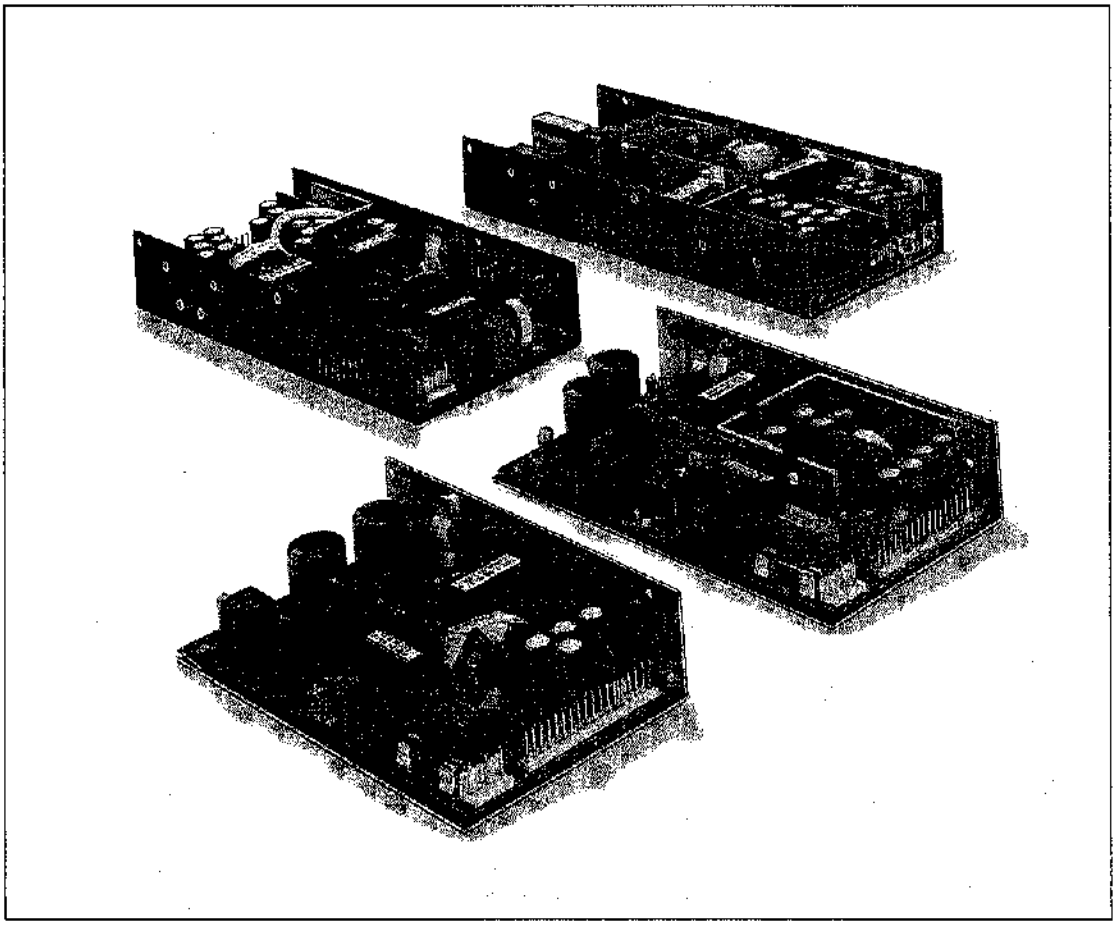
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *TDK-Lambda / Nemic-Lambda LWT-2H-5FF* at our website: ***Click HERE***

# 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

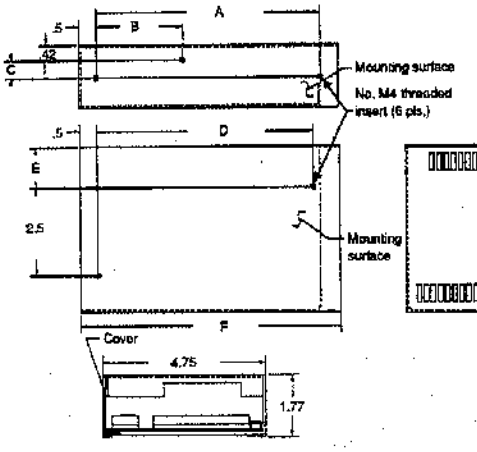
**V AND Z SERIES**
- Low Cost 110VAC and 110/220VAC Inputs
- PCB and Chassis Mount Construction
- Meets FCC and VDE Curve B

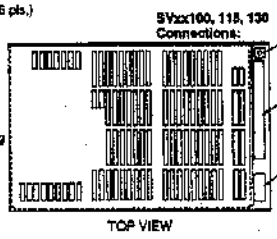
**LW SERIES**
- High Density, Low Profile
- 110/220 Universal Input
- Meets VDE Curve A

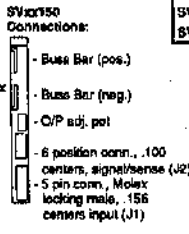
| MAX POWER | OUTPUT 1 | OUTPUT 2 | OUTPUT 3 | COMPLETE ELEC. SPEC. PG. | UNIT PRICE PER DELIVERED QUANTITY 1 | 10 | 25 | 50 | MODEL |
|---|---|---|---|---|---|---|---|---|---|
| **TRIPLE OUTPUT. 110VAC INPUT.** | | | | | | | | | |
| **5V, +12V, –12V OUTPUT** | | | | | | | | | |
| 15W | 5V @ 2A | +12V @ 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 |

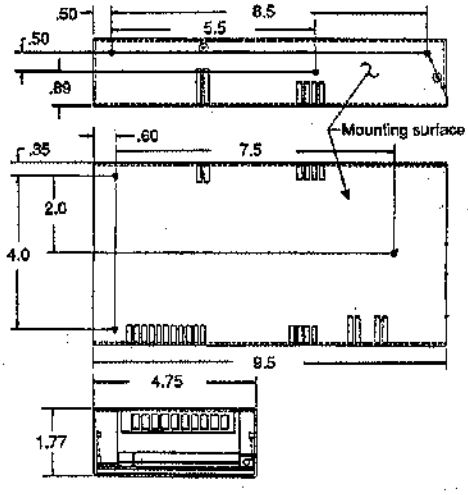
SVxx100, 115, 130:

| | 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 |

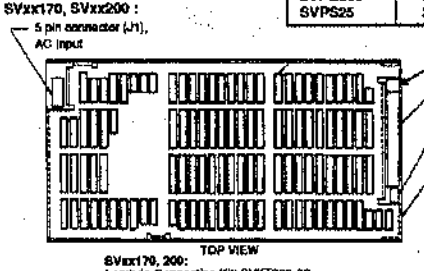
SVxx150:

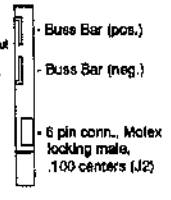
| | Molex Part No. | Amp Part No. |
|---|---|---|
| J1 Mating Connector Housing | 09-50-8051 | 640250-5 |
| J2 Mating Connector Housing | 22-01-3067 | 770602-6 |
| J1 Crimp Terminals | 08-50-0106 | 640707-1 |
| J2 Crimp Terminals | 08-50-0114 | 770666-1 |

## 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 |



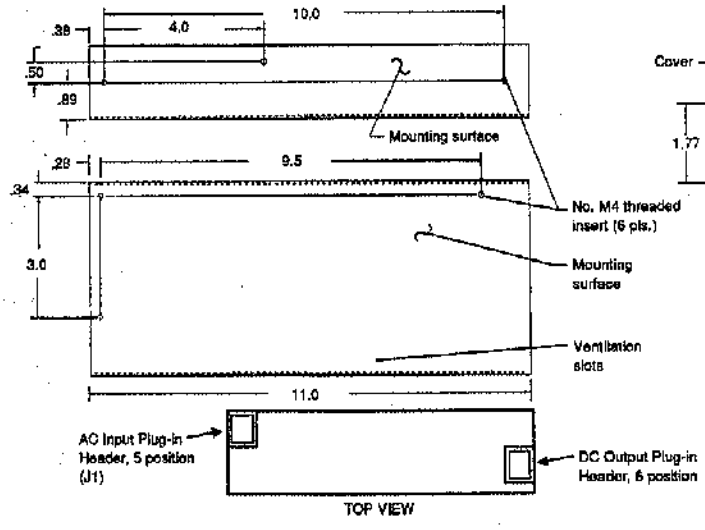

SVxx170, 200:
Lambda Connecting Kit: SVKT200-30

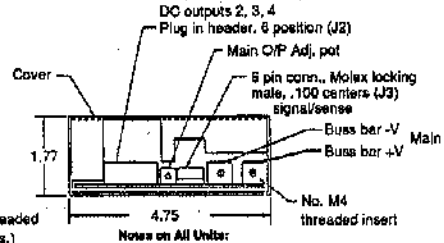
| | Molex Part No. | Amp Part No. |
|---|---|---|
| J1 Mating Connector Housing | 09-50-8051 | 640250-5 |
| J2 Mating Connector Housing | 09-50-8180 | 1-640251-6 |
| J3 Mating Connector Housing | 22-01-3047 | 770602-4 |
| J1 & J2 Crimp Terminals | 08-50-0106 | 640707-1 |
| J3 Crimp Terminal | 08-50-0114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

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP