



## Introduction

APX has been a leading innovator and supplier of transformers and external power supplies for over twenty years, a global manufacturer with local engineering support. APX is headquartered in New York with national representation and distribution.

**Contact us today for your representative or local distributor to discuss your needs.**

## Products

Audio Transformers  
Telecom Coupling Transformers  
Modem Transformers  
Power Transformers

Pulse Transformers  
HF Transformers and Toroids  
AC Output Adapters  
DC Output Adapters

Regulated Linear Power Supplies  
Battery Chargers  
International Power Supplies  
External Switchmode Power

## Capabilities

We have successfully supported our client base for 20 years with:

- Design and Engineering
- Product and Application Analysis
- Custom Tooling and Package Molding
- Safety Agency Certification

# SWITCHING POWER

## Wall Plug-in



### 0-10 Watts Output

#### Power Strip Plug-in

North American 2 blade input, 90-132 VAC  
Available with Euro-plug, 90-264 VAC input:  
Add suffix E to part number

Output Volts DC	Current	Part Number
5V	0-1.60A	SP1005
6V	0-1.33A	SP1006
7.5V	0-1.06A	SP1007
9V	0-1.33A	SP1006
12V	0-0.83A	SP1012
15V	0-0.66A	SP1015
18V	0-0.56A	SP1018
24V	0-0.42A	SP1024

Size: 56L x 44W x 27.5H

#### Specifications:

##### Input

Input Voltage: 90 To 264VAC for all desk-top supplies, and Wall plug-in with Euro connector input  
US Blade wall plug-ins - 90-132VAC

##### Input Frequency: 47 To 63Hz

Will operate to 440Hz: all desk-top supplies from 15 Watts through 60 Watts  
All others - 47 To 63Hz

##### Input Currents:

10 Watts .3A Max (RMS) At 115VAC  
15 Watts .4A Max (RMS) At 115VAC  
24 Watts .7A Max (RMS) At 115VAC  
40 Watts 1.0A Max (RMS) At 115VAC  
50 Watts 1.6A Max (RMS) At 115VAC  
60 Watts 1.6A Max (RMS) At 115VAC

##### Safety ground leakage current:

0.75mA @ 240 VAC 50Hz

##### Output

##### Regulation:

Line +/-0.5% maximum at full load  
Load +/-5% maximum on all outputs

##### Ripple:

1% Peak to Peak maximum

### 0-10 Watts Output

#### Wall Plug-in

North American 2 blade input, 90-132 VAC  
Available with Euro-plug, 90-264 VAC input:  
Add suffix E to part number

Output Volts DC	Current	Part Number
5V	0-2.00A	SP1105
6V	0-1.50A	SP1106
7.5V	0-1.30A	SP1107
9V	0-1.20A	SP1109
12V	0-1.00A	SP1112
15V	0-0.80A	SP1115
18V	0-0.60A	SP1118
24V	0-0.40A	SP1124

Size: 74L x 50W x 41H

#### Overvoltage Protection:

112 - 132% of nominal output voltage

#### Overcurrent Protection:

Protected to short circuit conditions

#### Temperature Coefficient:

+/- 0.04% / °C maximum

#### Transient Response:

Maximum excursions of 4% or better on all models, recovering to 1% of final value within 500us max after a 25% step load change

#### Environmental

##### Operating Temperature:

0°C To 70°C for all desk tops from 15 Watts, derated from 100% at +40°C linearly to 50% at +70°C.  
0°C To 50°C for all wall plug-ins and SP1900 series 10 Watt desk-top

##### Storage Temperature:

-40°C to +85°C

##### Relative Humidity:

5% to 95°C non-condensing

##### General

##### Efficiency:

70% minimum at full output typical

##### Hold-up Time:

5msec minimum typical

### 0-20 Watts Output

#### Wall Plug-in

North American 2 blade input, 90-132 VAC  
Available with Euro, British, and Australian plugs, 90-264 VAC input:  
Add suffix E, B or A, respectively.

Output Volts DC	Current	Part Number
5V	0-3.50A	SP3105
6V	0-2.50A	SP3106
7.5V	0-2.50A	SP3107
9V	0-2.00A	SP3109
12V	0-1.60A	SP3112
15V	0-1.30A	SP3115
18V	0-1.00A	SP3118
24V	0-0.80A	SP3124

Size: 84L x 56W x 50H

#### Inrush Current:

15 Amps @ 115VAC, Or 30 Amps @ 230 VAC at 25°C Cold Start

#### Withstanding Voltage:

3000 VAC from input to output,  
1500 VAC from input to ground.  
500 VAC from output to ground

#### Insulation Resistance:

50 Mohm minimum from output to ground

#### Mean Time Between Failure:

100,000 hours minimum at full load at 25°C ambient

#### EMI Requirements:

Meets conduction limits of (A) FCC 20780 Class B (B) CISPR 22 Class B

#### Safety Requirements:

Meets or exceeds (A) UL 1950 (B) CSA C22.2 no. 234 IEC 60950 per TUV

#### Safety Approvals:

UL/CSA or cUL/CE/TUV