



### Features:

- \* Universal or 90-132 VAC Input
- \* Small Wallmount and Desktop packages
- \* Worldwide Safety Approvals
- \* EN55022 & FCC Class B Emissions
- \* CE Mark

### Input

Input Voltage APS12ES = 90-264 vac | APS12ESB = 90-132 VAC  
 Input Frequency 47-63Hz  
 Inrush Current APS12ES = 28A max | APS12ESB = 22.5A Max  
 Input Current 0.24A @ 115 VAC / 0.15A @ 230 VAC Max  
 Hold-Up Time 13.2ms @ 115 VAC / 42ms @ 230 VAC Full Load

### General

Efficiency 80.5% Typ.  
 Switching Frequency 56-76KHz  
 Operating Temperature 0 to 40°C full load, derate 5% per °C to 50°C max.  
 Storage Temperature -20°C to +85°C  
 Cooling Convection  
 Temp Co-Efficient 0.04% per °C  
 Topology Free Running Flyback

### Output

Minimum Load None  
 Line Regulation ±0.1% typ.  
 Load Regulation V1 = ±2 - 3%  
 Ripple & Noise ±1% typ. pk-pk @ 20MHz  
 Overload Protection 125-150% of rated current  
 OverVoltage Protection Zener Diode Clamp  
 Adjustment Fixed  
 Transient Response voltage returns < 1mS following a 25% load change

### EMC & Safety

Emissions EN55022 "B", FCC Class B

Safety Approvals UL/cUL60950-1  
 EN60950-1  
 CE Mark (LVD)



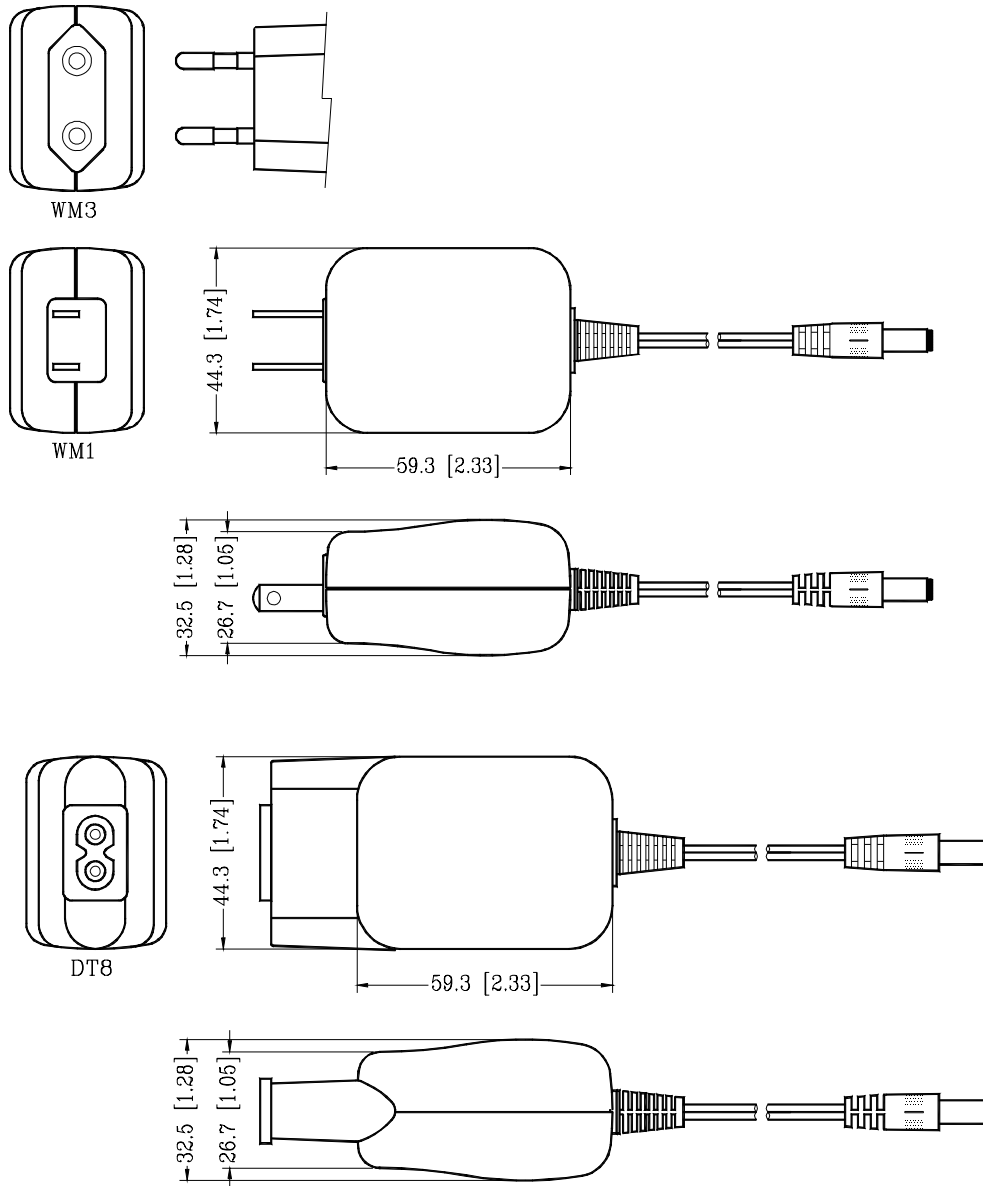
### Model Number

### Output

APS12ES-033240-x	3.3V @ 2.40A
APS12ES-050240-x	5.0V @ 2.40A
APS12ES-060200-x	6.0V @ 2.00A
APS12ES-065180-x	6.5V @ 1.80A
APS12ES-075160-x	7.5V @ 1.60A
APS12ES-090130-x	9.0V @ 1.30A
APS12ES-120100-x	12.0V @ 1.00A
APS12ES-150080-x	15.0V @ 0.80A
APS12ES-240050-x	24.0V @ 0.50A
APS12ES-480025-x	48.0V @ 0.25A

- 1) For 90-132 VAC Input, change part # prefix from "APS12ES" to "APS12ESB", available with only "WM1" package
- 2) Add suffix to the end of the part # to call out PACKAGE STYLE, 1 = WM1, 2 = WM2, 8 = DT8 package.
- 3) Add Suffix "-G" for Gaming Applications (< 500uA Leakage Current & Class A Emissions)

**Mechanical Details**



**Notes**

WEIGHT: 113g (4.0 Oz.)

Standard Output Cable Length is 6 feet

See Output Connector Chart for standard output connector options