



**Features:**

- \* Universal AC Input
- \* Small Desktop package
- \* On/Off Switch
- \* Worldwide Safety Approvals
- \* EN55022 & FCC Class B Emissions
- \* CE Mark

**Input**

Input Voltage Universal (90-264 VAC)  
 Input Frequency 47-63Hz  
 Inrush Current 20A Max  
 Input Current 1.3 @ 115 VAC / 0.6A @ 230 VAC Max  
 Hold-Up Time 15ms @ 115 VAC / 75ms @ 230 VAC Full Load

**General**

Efficiency 75-80% Typ.  
 Switching Frequency 44KHz  
 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 Fixed frequency flyback circuit

**Output**

Minimum Load 20% min load required on V1 Only  
 Line Regulation ±0.1% typ.  
 Load Regulation V1 = ±1.5 -3% | V2 = ±3 - 5% | V3 = ±1 -2% typ.  
 Ripple & Noise 1% typ. pk-pk @ 20MHz  
 Overload Protection 125-150%, Auto-recovery (custm settings upon request)  
 OverVoltage Protection V1 only (crowbar)  
 Adjustment Fixed  
 Transient Response voltage returns < 5mS following a 25% load change

**EMC & Safety**

Emissions EN55022 "B", FCC Class B

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

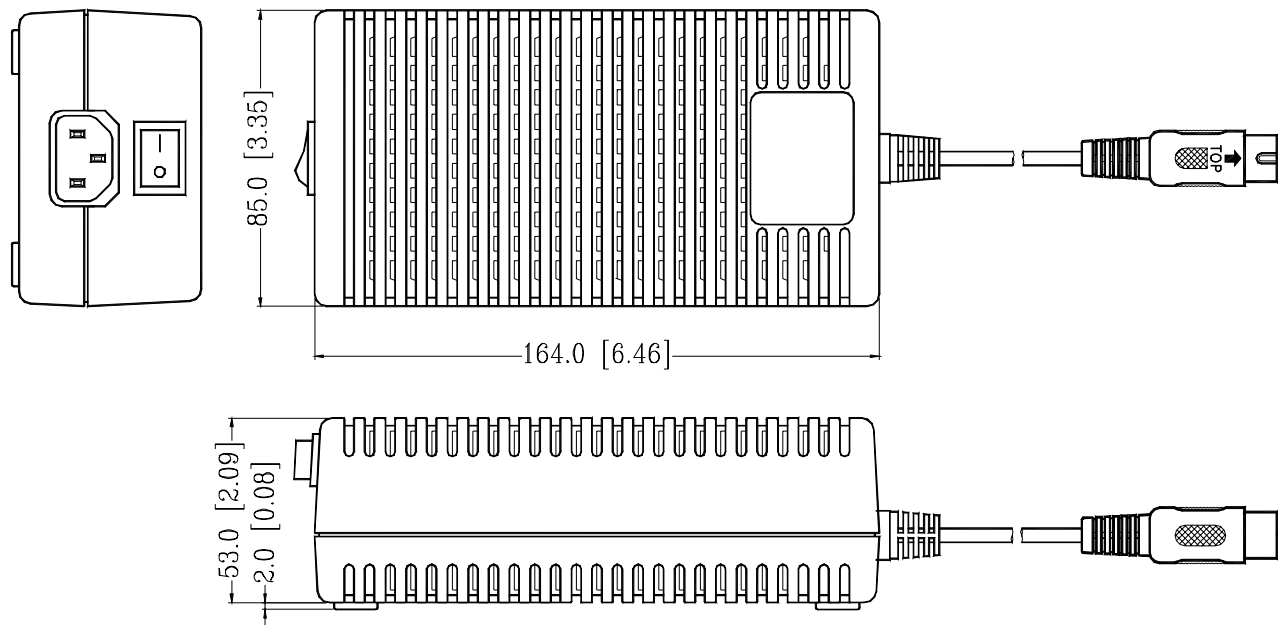


**Model Number**

**Output**

APS61ES-10	5 @ 9A
APS61ES-11	12V @ 4.2A
APS61ES-11A	13.2V @ 4.0A
APS61ES-12	15V @ 3.4A
APS61ES-13	24V @ 2.2A
APS61ES-19	3.3V @ 9A
APS61ES-20	+5V @ 7A   -5V @ 0.75A
APS61ES-21	+5V @ 5A   +12V @ 3A
APS61ES-21A	+5V @ 7.5A   +12V @ 1A
APS61ES-22	+5V @ 5.0A   +15V @ 2.0A
APS61ES-23	+5V @ 5.0A   +24V @ 1.0A
APS61ES-25	+15V @ 2A   +8V @ 1.7A
APS61ES-30	+5V @ 5A   +12 @ 1.5A   -12V @ 0.5A
APS61ES-31	+5V @ 5A   +12 @ 1.5A   -5V @ 0.8A
APS61ES-32	+5V @ 5A   +24 @ 0.75A   -12V @ 0.5A
APS61ES-33	+5V @ 5A   +15 @ 1.5A   -5V @ 0.5A
APS61ES-34	+5V @ 5A   +15 @ 1.5A   -15V @ 0.2A

*Mechanical Details*



*Notes*

WEIGHT: 531g (18.73Oz.)

Standard Output Cable Length is 6 feet

See Output Connector Chart for standard output connector options