

UNIVERSAL INPUT AC TO DC EXTERNAL DESKTOP ADAPTOR MULTIPLE OUTPUT SWITCHING POWER SUPPLIES 40 WATTS HES40 SERIES



FEATURES:

- AUTOMATICALLY ACCOMMODATES UNIVERSAL AC SOURCES.
- DESKTOP ADAPTOR WITH IEC 320 INPUT RECEPTACLE.
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS.
- EMI/RFI MEET CISPR PUB.22 CLASS B.
- CE MARKING COMPLIANCE.

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typical 90-265VAC.
Input Connector: IEC 320 AC receptacle.
Input Frequency: 47-63Hz.
 (Consult factory for 440Hz operation).
Inrush Current: 15A max. @ 230VAC
Input Current: 1.0A@115VAC & 0.33A@230VAC
Dielectric Withstand: (1*)Meet IEC950.
EMI/RFI: Meet CISPR PUB.22 class B.
Hold-up Time: 30mS typ.@115VAC.
 120mS typ.@ 230VAC.

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS.
Output Current : See RATINGS CHARTS.
Output Connector: Optional.
Line Regulation: $\pm 0.1\%$ typ.
Load Regulation: (2*) $\pm 3-5\%$ upon cord formats.
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in +5V O/P @ +6.4V $\pm$ -0.4V.
 Option for other O/P @ 124% typ.
Adjustability: Factory set.
Overload Protection: 105% max.power.

GENERAL SPECIFICATIONS:

Efficiency: Typ. 75%
Switching Frequency: About 37- 100K Hz.
Circuit Topology: Free-running flyback circuit.
Transient Response: Output voltage returns in less than 3mS following a 50% load change.
Safety Standard: UL1950/EN60950

Operating Temperature: 0-40 °C.
Storage Temperature: -20 to +85 °C.
Temperature Coefficient: 0.04% /°C.
Cooling: Free air convection.
Construction: Impact resistant thermo-plastic enclosure with venting slot desktop format.

Remarks: (1*) Dielectric Withstand: If at the cord strain relief end for 1 minute, the results are 3,000VAC-Output/Input, 1,500VAC-Input/GND, 500VAC-Output/GND.

(2*) Load regulation: The exact obtainable voltage regulation depends upon the output cord selected and load currents. Upper data are for 6ft.(2 meters) cord AWG#18/20 wires with PF or PD type connector.



VOLTAGE/CURRENT RATINGS CHART.

SINGLE OUTPUT:

MODEL NO.	MAIN O/P VO1 ★ TYP. VOLT. PEAK		
HES40-10	6.0A	5.0V	8.0A
HES40-10A	4.0A	6.5V	6.0A
HES40-11	2.5A	12V	3.3A
HES40-12	2.0A	15V	2.7A
HES40-13	1.25A	24V	1.7A

DUAL OUTPUT:

MODEL NO.	MAIN O/P VO1 ★ TYP. VOLT. PEAK			AUX.O/P +VO2†or-VO3* TYP. VOLT. PEAK		
HES40-20	7.0A	+5V	8.0A	1.0A	-5V	1.0A
HES40-21	6.0A	+5V	7.0A	1.0A	+12V	1.0A
HES40-22	5.0A	+5V	6.0A	1.0A	+15V	1.0A
HES40-23	4.0A	+5V	5.0A	1.0A	+24V	1.0A
HES40-24	2.5A	+12V	3.0A	1.0A	-12V	1.0A

TRIPLE OUTPUT:

MODEL NO.	MAIN O/P VO1 ★ TYP. VOLT. PEAK			AUX.O/P VO2 † TYP. VOLT. PEAK			AUX.O/P VO3 * TYP. VOLT. PEAK		
HES40-30	4.0A	+5V	5.0A	1.5A	+12V	2.0A	1.0A	-12V	1.0A
HES40-30L3	5.0A	+5V	6.0A	1.2A	+12V	2.0A	0.25A	-12V	1.0A
HES40-31	4.0A	+5V	5.0A	1.5A	+12V	2.0A	1.0A	-5V	1.0A
HES40-32	4.0A	+5V	5.0A	1.0A	+24V	1.0A	1.0A	-12V	1.0A
HES40-33	4.0A	+5V	5.0A	1.5A	+15V	2.0A	1.0A	-5V	1.0A

Symbols: "★" OVP built-in. "†" Stacked on main output. "*" Installed with Post Regulator(PR)

Remark: Peak output, less than 60 Sec. Peak current can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS:MM(INCHES)

WEIGHT:570 g (20.1 Oz.)

