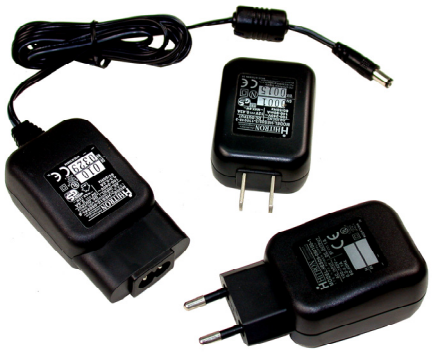
H HiTRON

AC/DC EXTERNAL WALLMOUNT & DESKTOP ADAPTER UNIVERSAL OR USA INPUT RANGE SINGLE OUTPUT 12 WATTS SWITCHING POWER SUPPLIES HES12 & HES12B SERIES



FEATURES:

- **LOW COST WALLMOUNT ADAPTER**
- **DIVERSE AC PLUGS AVAILABLE**
- **MEET DIVERSE SAFETY STANDARDS**
- **EMI MEET EN 55022 OR FCC CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: HES12 typ. 90-264Vac, rating 100-240Vac.
HES12B typ. 90-132Vac, rating 120Vac.
Input Connector:
HES12: WM1 (U.S.2-blade)/WM3 (Euro-stecker)/ DT8(IEC320-2P).
HES12B: WM1 (U.S.2-blade).
Input Frequency: 47-63Hz.
Inrush Current:
HES12: 28A @ 230Vac typical by adding thermister.
HES12B: 22.5A @ 115Vac typical.
Input Current: HES12 0.15A @ 230Vac typical.
HES12B 0.24A @ 115Vac typical.
Dielectric Withstand: Meet IEC60950.
EMI: Meet EN 55022 or FCC Class B.
Hold-up Time: 13.2mS@115Vac/42.0mS@230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: 12 Watts typical.
Output Connector: Optional.
Line Regulation: 0.1% typical.
Load Regulation: ±2-3% typical.
Noise & Ripple: 1.0% typical peak to peak.
OVP: Built-in. By Zener diode clamping.
Adjustability: Factory set.
Overload Protection (OLP):
Fully protected against output overload or short circuit.
OLP set at about 120-150% max. load.
Consult the factory for special OLP setting

GENERAL SPECIFICATION

Efficiency: 80.5% typical.
Switching Frequency: 56-76K Hz.@ full load typical.
Circuit Topology: Free-running flyback circuit.
Transient Response: Output voltage returns typical 1mS following a 25% load change.
Safety Standard: Meet UL60950/EN60950 Class II.
Power Density: 2.3 Watts / Cubic inch.
Operating Temperature: 0 to +25/35/40°C without derating. (various with output voltage)
Storage Temperature: -20 to +85°C.
Temperature Coefficient: 0.04% /°C typical.
Cooling: Free air convection.
Construction: Impact resistant thermo-plastic enclosure case.
Wallmount or Desktop format.

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load is varied from half load to full load (±%).
(3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 m) cord AWG#18 wires.
(4) Due to requests in market and advances in technology, specifications subject to change without notice.

For the details of safety approval, please consult the factory.

MODEL NO. DESCRIPTION: HES12 or B - XXX YYY – S

- S: INPUT AC PLUG: HES12: [1]WM1, [3]WM3, [8]DT8; HES12B: WM1
- YYY: OUTPUT CURRENT
- XXX: OUTPUT VOLTAGE
- HES12 or B: SERIES NAME (HiTRON External Switcher): About 12W

OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	AC INPUT	AC PLUG	O/P VOLTAGE	O/P CURRENT	FORMAT
HES12-033240-1,3,8	90-264Vac	WM1/WM3/DT8	**3.3Vdc**	2.40A	Wallmount/Desktop
HES12B-033240	90-132Vac	WM1	**3.3Vdc**	2.40A	Wallmount
HES12-050240-1,3,8	90-264Vac	WM1/WM3/DT8	**5.0Vdc**	2.40A	Wallmount/Desktop
HES12B-050240	90-132Vac	WM1	**5.0Vdc**	2.40A	Wallmount
HES12-060200-1,3,8	90-264Vac	WM1/WM3/DT8	**6.0Vdc**	2.00A	Wallmount/Desktop
HES12B-060200	90-132Vac	WM1	**6.0Vdc**	2.00A	Wallmount
HES12-065180-1,3,8	90-264Vac	WM1/WM3/DT8	**6.5Vdc**	1.80A	Wallmount/Desktop
HES12B-065180	90-132Vac	WM1	**6.5Vdc**	1.80A	Wallmount
HES12-075160-1,3,8	90-264Vac	WM1/WM3/DT8	**7.5Vdc**	1.60A	Wallmount/Desktop
HES12B-075160	90-132Vac	WM1	**7.5Vdc**	1.60A	Wallmount
HES12-090130-1,3,8	90-264Vac	WM1/WM3/DT8	**9.0Vdc**	1.30A	Wallmount/Desktop
HES12B-090130	90-132Vac	WM1	**9.0Vdc**	1.30A	Wallmount
HES12-120100-1,3,8	90-264Vac	WM1/WM3/DT8	**12.0Vdc**	1.00A	Wallmount/Desktop
HES12B-120100	90-132Vac	WM1	**12.0Vdc**	1.00A	Wallmount
HES12-150080-1,3,8	90-264Vac	WM1/WM3/DT8	**15.0Vdc**	0.80A	Wallmount/Desktop
HES12B-150080	90-132Vac	WM1	**15.0Vdc**	0.80A	Wallmount
HES12-240050-1,3,8	90-264Vac	WM1/WM3/DT8	**24.0Vdc**	0.50A	Wallmount/Desktop
HES12B-240050	90-132Vac	WM1	**24.0Vdc**	0.50A	Wallmount
HES12-480025-1,3,8	90-264Vac	WM1/WM3/DT8	**48.0Vcd**	0.25A	Wallmount/Desktop
HES12B-480025	90-132Vac	WM1	**48.0Vdc**	0.25A	Wallmount

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 113g (4.0 Oz.)