



AC/DC EXTERNAL WALLMOUNT ADAPTER 2-BLADE USA AND EURO-STECKER AC PLUG SINGLE OUTPUT 9-10 WATTS SWITCHING POWER SUPPLIES HES09 SERIES



FEATURES:

- VERY SMALL & COMPACT IN SIZE
- 2-BLADE USA OR EURO-STECKER AC PLUG
- EMI MEET EN55022 / FCC CLASS B
- MEET UNIVERSAL SAFETY STANDARDS
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-132Vac or 90-264Vac.
Input Connector: WM1 (U.S.2-Blade)/
 WM3 (Euro-Stecker)/DT8(IEC320-2P).
Input Frequency: 47-63Hz.
Inrush Current: 34A @230Vac, 21A @ 230 Vac typical
 by adding the thermister.
Input Current: 0.22A @115Vac. / 0.1A @ 230Vac typical.
Dielectric Withstand: Meet IEC60950.
EMI: Meet EN55022 / FCC Class B.
Hold-up Time: 10mS @115Vac or 40mS @230Vac typical.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: 9-10 Watts typical.
Output Connector: Optional.
Line Regulation: 0.1% typical.
Load Regulation: ± 1.5 -3.0% typical.
Noise & Ripple: 1.0% typical peak to peak.
OVP: Built-in, Zener Diode clamping.
Overload Protection (OLP):
 Fully protected against output overload and short circuit.
 OLP set at about 125-150% rating output wattage.
 Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: 75% typical.
Switching Frequency: Fixed 100K Hz.
Circuit Topology: Fixed Frequency Flyback circuit.
Transient Response: Output voltage returns in less than
 3mS following a 25% load change.
Safety Standard: Meet UL60950 / EN60950 Class II.
Power Density: 1.73 Watts / Cubic inch.
Operating Temperature: 0 to room temperature.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: 0.04%/°C.
Cooling: Free air convection.
Construction: Impact resistant thermo-plastic
 enclosure case.
Wallmount 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 ($\pm\%$).

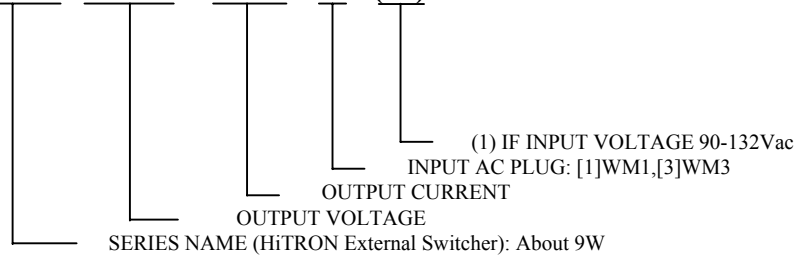
(3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 m) cord AWG#18 wires.

(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: HES09 - X X X Y Y Y - S (1)



OUTPUT VOLTAGE/CURRENT RATINGS CHART

DEFINED OUTPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)/CURRENT (A)
5.0Vdc ≤ Any Voltage ≤ 15.0Vdc	5.0-5.6V/1.8-1.6A, 5.7-6.0V/1.58-1.5A, 6.1-6.4V/1.47-1.4A, 6.5-6.9V/1.38-1.3A, 7.0-7.5V/1.28-1.2A, 7.6-8.2V/1.18-1.1A, 8.3-9.0V/1.08-1.0A, 9.1-10.0V/0.99-0.9A, 10.1-11.2V/0.89-0.8A, 11.3-12.8V/0.79-0.7A, 12.9-13.8V/0.69-0.65A, 13.9-15.0V/0.64-0.6A.

Note: Refer to the upper Chart or consult factory for the exact Model No. and V/A ratings.

SINGLE OUTPUT (Model No. for example.)

MODEL NO.	AC INPUT	AC PLUG	O/P VOLTAGE	O/P CURRENT
HES09-050160-1(1)	90-132Vac	WM1	5.0Vdc	1.60A
HES09-050180-1	90-264Vac	WM1	5.0Vdc	1.80A
HES09-050180-1(1)	90-132Vac	WM1	5.0Vdc	1.80A
HES09-050180-3	90-264Vac	WM3	5.0Vdc	1.80A
HES09-050180-8	90-264Vac	DT8	5.0Vdc	1.80A
HES09-050200-1	90-264Vac	WM1	5.0Vdc	2.00A
HES09-050200-3	90-264Vac	WM3	5.0Vdc	2.00A
HES09-050200-8	90-264Vac	DT8	5.0Vdc	2.00A
HES09-120075-1	90-264Vac	WM1	12.0Vdc	0.75A
HES09-120075-1(1)	90-132Vac	WM1	12.0Vdc	0.75A
HES09-120075-3	90-264Vac	WM3	12.0Vdc	0.75A
HES09-150060-1	90-264Vac	WM1	15.0Vdc	0.60A
HES09-150060-1(1)	90-132Vac	WM1	15.0Vdc	0.60A
HES09-150060-3	90-264Vac	WM3	15.0Vdc	0.60A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 113.0g (4.0 Oz)

