

**UNIVERSAL INPUT AC TO DC EXTERNAL WALLMOUNT ADAPTER  
SINGLE OUTPUT 20-36 WATTS SWITCHING POWER SUPPLIES  
HES25 SERIES**



**FEATURES:**

- ACCOMMODATE UNIVERSAL AC INPUT
- DIVERSE WALLMOUNT AC PLUGS
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN55022 /FCC CLASS B
- CE MARKING COMPLIANCE

**SPECIFICATION**

**INPUT SPECIFICATION**

**Input Voltage:** 90-264Vac typical.  
**Input Connector:** Wallmount Format  
 WM1/ WM2 (USA/Japan) ,WM3(Euro-Stecker)  
 WM5 (UK) / WM6 (Australia).  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 28A @230Vac typical.  
**Input Current:** 0.6A @115Vac. / 0.3A @230Vac.  
**Dielectric Withstand:** Meet IEC950.  
**EMI:** Meet EN55022/ FCC Class B.  
**Hold-up Time:** 8mS @115Vac or  
 35mS @230Vac typical.

**OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 20-36 Watts.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** 0.1% typical.  
**Load Regulation:** ±3 ~ 5% typical.  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in Zener diode clamping.  
**Adjustability:** Factory set.  
**Overload Protection:** Typ. 125~150% of max. power  
 overrange or short circuit, power foldback  
 & self-recovering.

**GENERAL SPECIFICATION**

**Efficiency:** 85% typical.  
**Switching Frequency:** Approximate 70K Hz.  
**Circuit Topology:** Fixed Frequency Flyback circuit.  
**Transient Response:** Output voltage returns in less  
 than 3mS following a 25% load change.  
**Safety Standard:** UL1950/ EN60950 Class I & II.  
**Power Density:** 2.67 Watts / Cubic Inch.

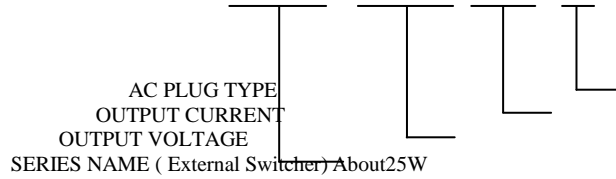
**Operating Temperature:** 0 to +40°C.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** 0.04% /°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic  
 enclosure case.  
**Wallmount Format.**

Notes: (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 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.



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

**MODEL NO. DESCRIPTION: HES25 - X X X YYY - S**



[1]WM1,[2] WM2, [3]WM3,  
[5] WM5, [6] WM6,

**OUTPUT VOLTAGE/ CURRENT RATINGS CHART**

DEFINED OUTPUT VOLTAGE	OUTPUT VOLTAGE (Vdc) / CURRENT (A)
3.3 Vdc ≤ Any Voltage < 24.0Vdc	3.3-5.0V/5.0-4.0A, 5.1-6.0V/3.95-3.5A, 6.1-7.4V/3.45-3.0A, 7.5-10.0V/2.98-2.5A, 10.1-15.0V/2.49-2.0A, 15.1-15.7V/1.98-1.91A, 15.8-16.6V/1.89-1.8A, 16.7-17.6V/1.79-1.7A, 17.7- 18.7V/1.69-1.6A, 18.8-20.0V/1.59-1.5A, 20.1-21.4V/1.49- 1.4A, 21.5-23.0V/1.39-1.3A, 23.1-23.9V/1.29-1.25A.
24.0Vdc ≤ Any Voltage ≤ 36.0Vdc	24.0-25.7V/1.5-1.4A, 25.8-27.6V/1.39-1.3A, 27.7-30.0V/1.29-1.2A, 30.1-32.7V/1.19-1.1A, 32.8-34.2V/1.09-1.05A, 34.3-34.9V/1.04-1.03A, 35.0-36.0V/1.02-1.0A.

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

**SINGLE OUTPUT (Model No. for example.)**

MODEL NO.	AC PLUG	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (A)
HES25-033500-1	WM1	3.3V	5.00A
HES25-050400-2	WM2	5.0V	4.00A
HES25-090270-3	WM3	9.0V	2.70A
HES25-120240-5	WM5	12.0V	2.40A
HES25-150200-6	WM6	15.0V	2.00A
HES25-180166-1	WM1	18.0V	1.66A
HES25-230130-2	WM2	23.0V	1.30A
HES25-240150-3	WM3	24.0V	1.50A
HES25-300120-5	WM5	30.0V	1.20A
HES25-360100-6	WM6	36.0V	1.00A
HES25-480052-1	WM1	48.0V	0.52A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 240g (8.5Oz).**

