

# Jasper Electronics

## AC/DC EXTERNAL WALLMOUNT & DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 16-18 WATTS SWITCHING POWER SUPPLIES HES18 SERIES



### FEATURES:

- UNIVERSAL INPUT
- DIVERSE AC PLUGS AVAILABLE
- WALLMOUNT OR DESKTOP FORMAT
- MEET UNIVERSAL SAFETY STANDARD
- EMI MEET EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** 90-264Vac typical.

**Input Connector:**

**Wallmount format:** WM1,2(USA/Japan)/WM3(Euro-Stecker)/  
WM4(Schuko-stecker)/ WM5(UK)/  
WM6, 6G(Australia).

**Desktop format:** IEC320 Inlet Type: DT7-3P or DT8-2P.  
Mouse Power Pig-tail Type: PT1/2/3/4/5/6/7.

**Input Frequency:** 47-63Hz.

**Inrush Current:** Typical 48A @230Vac or

28A @230Vac by adding thermister.

**Input Current:** 0.4A @115Vac/ 0.17A @230Vac typical.

**Dielectric Withstand:** Meet IEC60950.

**EMI:** Meet EN55022 / FCC Class B.

**Hold-up Time:** 10mS @115Vac/ 40mS @230Vac typical.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.

**Output Current:** See Ratings Chart.

**Output Wattage:** 16-18 Watts typical.

**Output Connector:** Optional.

**Line Regulation:** 0.1% typical.

**Load Regulation:**  $\pm 1.5$ -3.0% typical.

**Noise & Ripple:** 1.0% typical peak to peak.

**OVP:** Built-in Zener diode clamping.

**Adjustability:** Factory set.

**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:** 75-80% typical.

**Switching Frequency:** Fixed 40KHz.

**Circuit Topology:** Fixed Frequency Flyback circuit.

**Transient Response:** Output voltage returns in less than  
3mS following a 25% load change.

**Safety Standard:** Meet UL1950/ EN60950 Class II.  
Class I for WM2,4,5,6G / DT7/PT 2,4,5,7.

**Power Density:** 2.0-2.3Watts / Cubic inch.

**Operating Temperature:** 0°C to room temperature.

0 to +40 °C for Japan PSE mark.

**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 ( $\pm$ %).

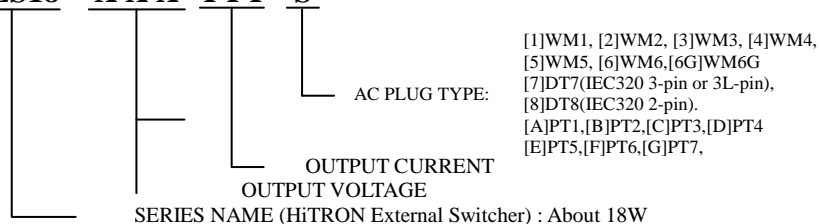
(3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 meters) cord AWG#18 wires.

(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.DESRIPTION: HES18 - X X X YYY - S



## OUTPUT VOLTAGE/CURRENT RATINGS CHART

DEFINED OUTPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc) / CURRENT (A)
$3.3 \text{ Vdc} \leq \text{Any Voltage} < 12.0 \text{ Vdc}$	3.3-5.0V/2.8-3.0A, 5.1-5.4V/2.95-2.8A, 5.5-5.9V/2.76-2.6A, 6.0-6.9V/2.56-2.3A, 7.0-7.9V/2.3-2.0A, 8.0-8.9V/2.0-1.85A, 9.0-10.0V/1.84-1.7A, 10.1-11.9V/1.7-1.52A.
$12.0 \text{ Vdc} \leq \text{Any Voltage} \leq 24.0 \text{ Vdc}$	12.0-15.0V/1.5-1.2A, 15.1-18.0V/1.19-1.0A, 18.1-20.0V/0.99-0.90A, 20.1-22.5V/0.89-0.80A, 22.6-24.0V/0.79-0.75A.

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 PLUG	O/P VOLTAGE	O/P CURRENT	FORMAT
HES18-033280-1	WM1	3.3Vdc	2.80A	Wallmount
HES18-050300-3	WM3	5.0Vdc	3.00A	Wallmount
HES18-070230-5	WM5	7.0Vdc	2.30A	Wallmount
HES18-090184-6	WM6	9.0Vdc	1.84A	Wallmount
HES18-120150-7	DT7	12.0Vdc	1.50A	Desktop
HES18-150120-8	DT8	15.0Vdc	1.20A	Desktop
HES18-240075-G	PT7	24.0Vdc	0.75A	Mouse-PT

## MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: HES18-WM 168.0g (5.93 Oz.)

