



FEATURES

- Wide-Range Input Voltage
- Industry-Standard Pin Out
- Adjustable Output Voltage (60% - 110%)
- Remote ON/OFF
- Remote Sense
- Constant Frequency
- Thermal Shutdown
- High Power Density (Up to 36.5 W/in³)

SPECIFICATIONS

INPUT

| | |
|--------------------------|---------------------------|
| Voltage/Current | See Model Selection Table |
| Max. Input Current | 6.0 A |
| | ($V_{in} = 0$ to 72 VDC) |
| Max. Inrush Transient | 2.0 A ² s |
| Reflected Ripple Current | 20 mA (peak-to-peak) |
| Ripple Rejection | 60 dB |

OUTPUT

| | |
|-------------------------|------------------------------------|
| Output Voltage | See Model Selection Table |
| Set Point | ±1% |
| Regulation | |
| Line | 0.01% (typ.) |
| Load | 0.05% (typ.) |
| Ripple (RMS) | |
| 3.3V, 5V | 40 mV |
| 12V, 15V | 80 mV |
| Noise (peak-to-peak) | |
| 3.3V, 5V | 100 mV |
| 12V, 15V | 150 mV |
| | (measured with a 20 MHz bandwidth) |
| Temperature Drift | ±0.01%/°C |
| Overvoltage Protection | 120% |
| Current Limit Inception | 115% |
| Short Circuit Current | 130% |
| Efficiency | See Model Selection Table |
| Isolation | |
| Voltage | 500 VDC |
| Capacitance | 2000 pf |
| Resistance | > 10 MV |

ENVIRONMENTAL

| | |
|----------------------|---------------|
| Operating Case Temp. | 0°C to +100°C |
| Storage Temp. | 0°C to +110°C |

MECHANICAL

| | |
|------------------|--|
| Size (W x D x H) | 2.40 x 2.28 x 0.50 inches (61 x 58 x 13 mm) |
| Weight | 3.5 oz. (99 g) |

See drawing on page 110

MODEL SPECIFICATIONS

| Output | | Input Range | | | |
|----------|-----------|----------------|--------|----------------|--------|
| Volts | Amps | 24 (18-36) VDC | | 48 (36-72) VDC | |
| | | Model | Effic. | Model | Effic. |
| 2.0 VDC | 0 - 10A | HWE02010 | 70% | HWG02010 | 71% |
| 3.3 VDC | 0 - 10A | HWE03010 | 78% | HWG03010 | 80% |
| 5.0 VDC | 0 - 10A | HWE05010 | 82% | HWG05010 | 85% |
| 12.0 VDC | 0 - 4.17A | HWE124R2 | 85% | HWG124R2 | 87% |
| 15.0 VDC | 0 - 3.33A | HWE153R3 | 85% | HWG153R3 | 88% |
| 24.0 VDC | 0 - 2.08A | HWE242R1 | 85% | HWG242R1 | 88% |