

Series H**μPOWER™****6 to 12 Watts****Voltage Adjustable DC-DC Converters****Features**

- Surface mount technology
- Up to 12 watts output power
- High power density
- Excellent efficiency
- Precision voltage setting
- Low output ripple & noise
- Built-in trimmer
- High MTBF
- 100% burned-in and tested
- Metal case shielding
- Vacuum encapsulated potting

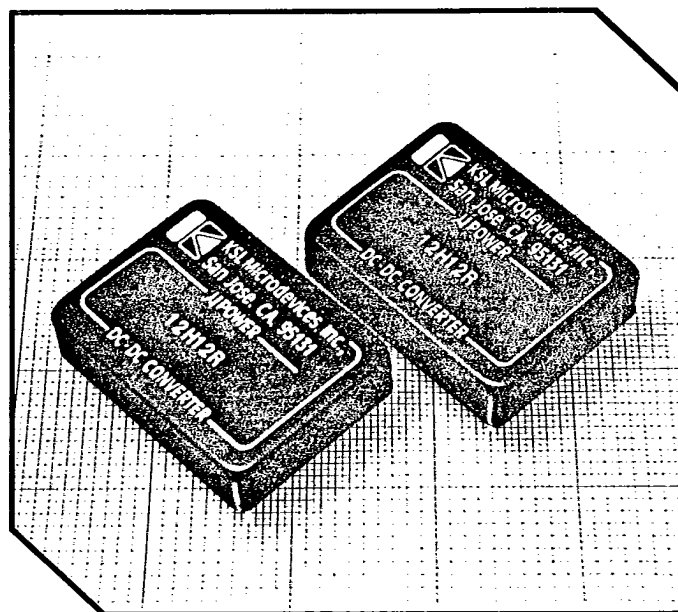
Specifications

- Input Voltage Range: $\pm 10\%$ at nominal
- Output Voltage Tolerance: $\pm 0.1\%$ at nominal
- Input Reflected Ripple: 1% of V_{in} max.
- Line Regulation: $\pm 0.05\%$ for $\pm 10\%$ line change
- Load Regulation: .05% (10% to 100% load)
- Output Ripple & Noise: 50mV p-p
- Efficiency: 75% @ nominal voltage
- Transient Response: Less than 10 μ sec.
- MTBF: 240,000 hours
- Operating Temperature: -25°C to $+70^{\circ}\text{C}$
- Storage Temperature: -55°C to $+70^{\circ}\text{C}$
- Temperature Coefficient: 100ppm/ $^{\circ}\text{C}$
- Burn-In: 70°C for 4 hours and tested
- Long Term Stability: 0.4%/khours

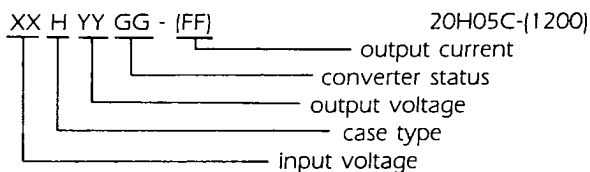
Special Options

- Case: EMI/RF Continuous Shielding Package
Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2
24 hours at $+125^{\circ}\text{C}$
- Burn-In: MIL-STD-883B, method 1015.4
96 hours at $+70^{\circ}\text{C}$ case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5
 $-55^{\circ}\text{C}/+125^{\circ}\text{C}$ 10 cycles minimum
- Thermal Shock: MIL-STD-883B, method 1011.4
 $-55^{\circ}\text{C}/5$ minutes, $+125^{\circ}\text{C}/5$ minutes

*Specifications subject to change without notice

**Part Number — Custom Designs**

KSL μPOWER converters are used in a wide variety of special custom design applications where alternate voltages, currents, pin-outs or multiple outputs are required.

**Converter Status**

U: Unregulated	S: Special specs
R: Regulated	J: Hi-Rel screened
C: Custom circuit	P: Special pin-outs

Applications

- Precision Instrumentation
- Process Control
- Medical Electronics
- Laboratory Research
- Microprocessor Based Instrument



KSL Microdevices, Inc., 2153-D O'Toole Ave., San Jose, CA 95131, (408) 922-0800

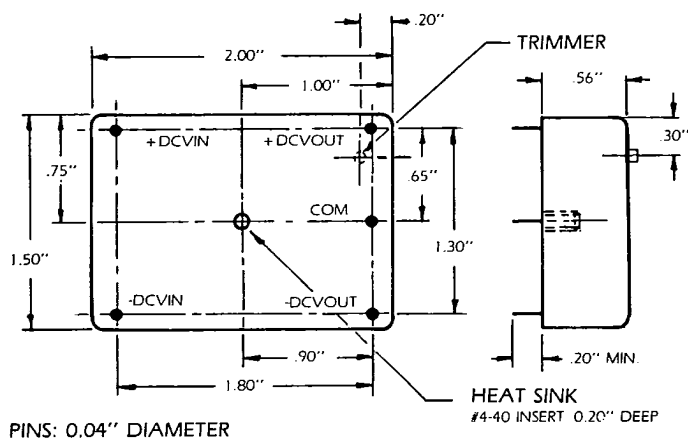
FAX (408) 922-0629

Selection Chart (Maximum Rating)

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*	MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	LOAD CURRENT*
08H05	+/- 8V	+/- 5V	1200 mA	15H05	+/- 15V	+/- 5V	1200 mA
08H12	+/- 8V	+/- 12V	1000 mA	15H12	+/- 15V	+/- 12V	1000 mA
08H15	+/- 8V	+/- 15V	800 mA	15H15	+/- 15V	+/- 15V	800 mA
08H24	+/- 8V	+/- 24V	500 mA	15H24	+/- 15V	+/- 24V	500 mA
08H28	+/- 8V	+/- 28V	450 mA	15H28	+/- 15V	+/- 28V	450 mA
12H05	+/- 12V	+/- 5V	1200 mA	24H05	+/- 24V	+/- 5V	1200 mA
12H12	+/- 12V	+/- 12V	1000 mA	24H12	+/- 24V	+/- 12V	1000 mA
12H15	+/- 12V	+/- 15V	800 mA	24H15	+/- 24V	+/- 15V	800 mA
12H24	+/- 12V	+/- 24V	500 mA	24H24	+/- 24V	+/- 24V	500 mA
12H28	+/- 12V	+/- 28V	450 mA	24H28	+/- 24V	+/- 28V	450 mA

*Current must be specified.

Package Dimensions

BOTTOM VIEW
Series H

Design Notes

