

# Series SH and SW $\mu$ POWER™ 12 to 60 Watts

## Wide-Input Switching Mode DC-DC Converters

### Features

- Surface mount technology
- Up to 60 watts output power
- High power density
- Excellent efficiency
- Excellent regulation
- Low output ripple & noise
- Single and dual outputs
- High MTBF
- 100% burned-in and tested
- Metal case shielding
- Vacuum encapsulated potting

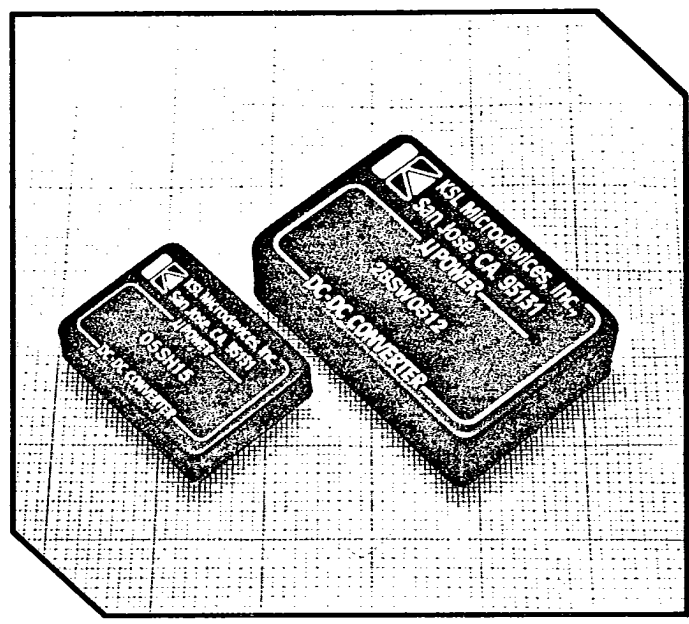
### General Specifications

- Input Voltage Range: 10V to 40V
- Output Voltage Tolerance:  $\pm 2\%$  at nominal
- Input Reflected Ripple: 1% of  $V_{in}$  max.
- Line Regulation:  $\pm .05\%$  for  $\pm 10\%$  line change
- Load Regulation: .15% (10% to 100% load)
- Output Ripple & Noise: 50mV p-p
- Efficiency: 80% @ nominal voltage
- Transient Response: Less than 10 $\mu$ sec.
- MTBF: 260,000 hours
- Operating Temperature:  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Storage Temperature:  $-55^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Temperature Coefficient: 100ppm/ $^{\circ}\text{C}$
- Burn-In:  $70^{\circ}\text{C}$  for 4 hours and tested
- Long Term Stability: 0.4%/khours

### Special Options

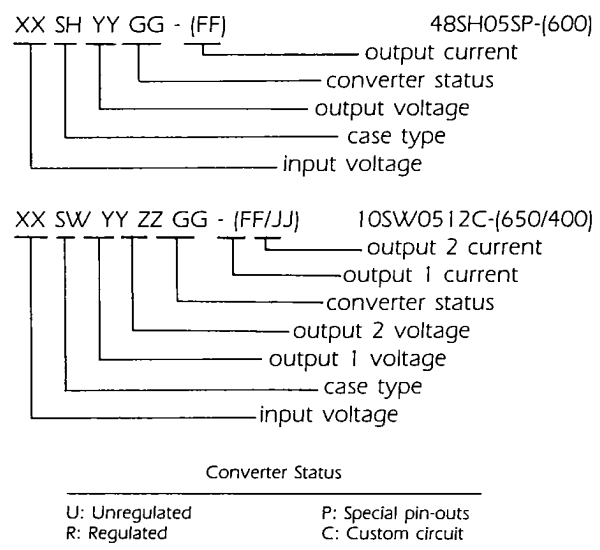
- Case: EMI/RF Continuous Shielding Package  
Six-sided enclosure grounded
- Stabilization Bake: MIL-STD-883B, method 1008.2  
24 hours at  $+125^{\circ}\text{C}$
- Burn-In: MIL-STD-883B, method 1015.4  
96 hours at  $+70^{\circ}\text{C}$  case temperature
- Temperature Cycle: MIL-STD-883B, method 1010.5  
 $-55^{\circ}\text{C}/+125^{\circ}\text{C}$  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  $\mu$ POWER converters are used in a wide variety of special custom design applications where alternate voltages, currents, pin-outs or multiple outputs are required.



### Applications

- Battery Powered Equipment
- Telecommunications Systems
- Airborne & Shipboard Equipment
- Solar Systems
- Data Communications

