

# KRS10F Series

## 10 WATT, Universal Input PCB Mountable Switching Power Supply



### FEATURES

- ▶ **EXTREMELY SMALL (1.26 X 2.56mm)**
- ▶ **10 WATT OUTPUT POWER**
- ▶ **UNIVERSAL INPUT**
- ▶ **OVERCURRENT PROTECTION**
- ▶ **LIGHTWEIGHT CONSTRUCTION**
- ▶ **Direct PCB Mountable**
- ▶ **COMPACT, LOW-PROFILE PACKAGES**
- ▶ **3 YEAR WARRANTY**

### SAFETIES/APPROVALS

**UL60950**  
**CSA C22.2 No. 60950(cUL)**  
**CE EN60950 3<sup>rd</sup> Edition (LVD)**

### ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

### INPUT SPECIFICATIONS

Input Voltage.....85 ~ 264VAC  
Input Frequency.....47 ~ 63Hz  
Input Current.....0.22 ~ 0.15A Typ.  
Inrush Current.....10A

### OUTPUT SPECIFICATIONS

Output Voltage .....See Chart  
Efficiency.....74 ~ 82%  
Over-Current Protection.....Automatic Recovery (105% min)  
Ripple and Noise.....See Chart  
Hold-Up Time.....**110V** – 11 mS  
**230V** – 120mS  
Load Regulation.....50mV max.  
Rise Time.....**110V** – 190mS  
**230V** – 185mS  
Leakage Current (100/230VAC).....< 0.75mA

### GENERAL SPECIFICATIONS

Isolation Voltage  
Primary to Secondary.....3000VAC  
Primary to Case.....2000VAC  
Secondary to Case.....500VAC  
Isolation Resistance.....100 M-Ohms min.

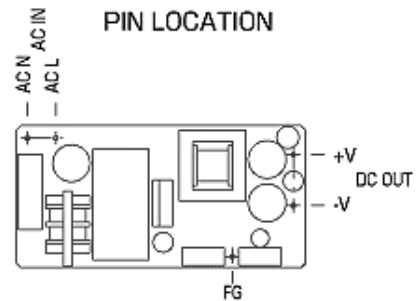
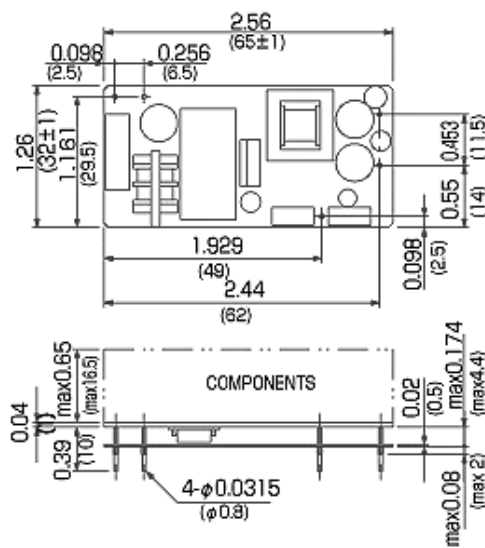
### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....10°C ~ +70°C  
Cooling.....Convection  
Temperature Coefficient.....0.02% / °C  
Humidity.....20 ~ 85%Rh (non-condensing)  
Storage Temperature.....-20°C ~ +85°C  
Shock Vibration.....Shock: 20G(3 Directions each 3 times)  
Vibration: 10 ~ 55Hz

### PHYSICAL SPECIFICATIONS

Open Frame – PCB Mountable

MODEL	Output Voltage	Output Current (85 ~ 264 VAC)	Efficiency (%)	Ripple & Noise (mVp-p)
KRS10F-05S	5VDC	2.00A	74%	150mVp-p
KRS10F-12S	12VDC	0.84A	79%	150mVp-p
KRS10F-15S	15VDC	0.65A	81%	150mVp-p
KRS10F-24S	24VDC	0.42A	82%	200mVp-p



Note:

- Measurements in millimeter (mm) unless otherwise specified
- Tolerance  $\pm 1$ mm

**NOTE:**

All specifications typical and nominal / full load and 25°C unless otherwise noted.  
 Avoid sustained operation in overload or dead short conditions.  
 Specifications subject to changes without notice.