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 3rd 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)
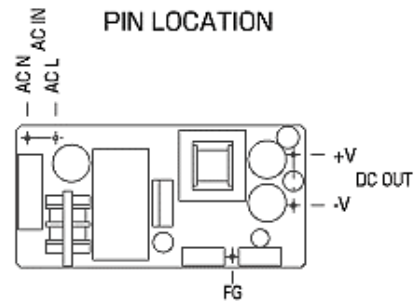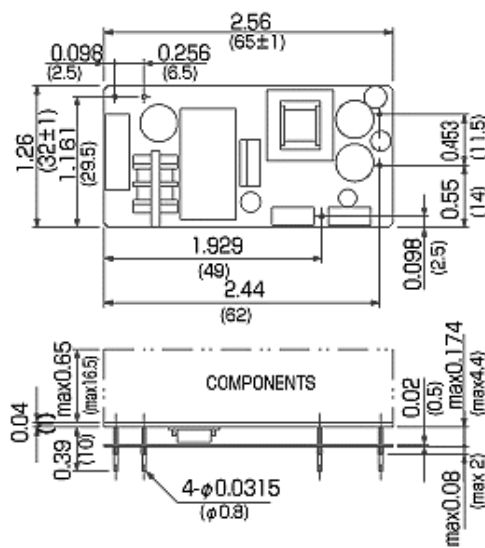   Vibration: 10 ~ 55Hz

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 ± 1mm

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.