



# High Efficiency GOLD Series Industrial SMPS

## KRP-GOLD-960-XX

The KRP-GOLD-960-XX is a **high-efficiency, compact** switched-mode power supply designed for a wide range of applications including industrial, commercial, and consumer electronics. This power supply features advanced power management and robust protection mechanisms, ensuring reliable performance and energy savings.

### **Key Features:**

- Input 180VAC to 280VAC operating range
- Input 250VDC to 390VDC operating range
- High Efficiency: Up to 93% efficiency to minimize energy loss.
- Compact size: 245x125x65mm LxWxH
- Cooling: Temperature controlled FAN cooled
- 20% Power Boost (1200W)
- Active inrush current Circuit: <7A with bypass relay-eliminate NTC heating
- Input under voltage protections (<180VAC)
- Output short circuit, over-load
- Can be mounted both Vertically and Horizontally with Panel Mount/Din rail Mount.
- Leading supplier for major OE manufactures, SAIL, HVF, NTPC, BHEL.
- All our products come with a 1-year warranty against all manufacturing defects

### **Ordering Code:**

KRP-GOLD-960-XX

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1	COMPANY'S NAME & 1-Phase input
2	GOLD - HIGH EFFECIENCY
3	RATED OUTPUT POWER
4	RATED OUTPUT VOLTAGE

## SPECIFICATIONS:

MODEL		KRP-GOLD-960-24	KRP-GOLD-960-48
OUTPUT	DC Voltage	24V	48V
	Load Current	40A	20A
	Output Voltage Adjustment	23.5-27.5VDC	47.5-50.5VDC
	Rated Power	960W	
	Ripple & Noise	210mVp-p	420mVp-p
	Line Regulation	± 1%	
	Load Regulation	<1% (180-280VAC)	
	Setup, Rise Time	2000ms, 90ms/415VAC at full load	
	Hold Up Time (Typ.)	20 msec at 230VAC	
INPUT	Voltage Range	180VAC to 280VAC / 250VDC to 390VDC	
	Frequency Range	47 - 63Hz	
	Efficiency (Typ.)	>93.5 %	
	AC Current (Typ.)	6.0A/230VAC	
	AC Inrush Current	<8A at 230VAC with NTC bypass relay (avoid Unnecessary NTC Heat)	
	Leakage Current	<3.5mA/ 220VAC	
PROTECTION	Overload	Output On-Off above 1200W	
	Short circuit	Protection type: Shut down o/p, Re-power on to recover (after 1 min)	
ENVIRONMENT	Working Temperature	-10 ~ + 60°C (Refer to "Derating Curve")	
	Working Humidity	20 ~ 90% RH non-condensing	
	Storage Temp., Humidity	-20 ~ +85°C, 10 - 95% RH	
	Temp. Coefficient	+0.03% / °C (0 - 50°C)	
	Vibration	10 - 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
EMC & SAFETY	Safety Standards	Designed as per UL950	
	Surge Voltage	6KV Tested	

	EMC Emission	pending
	EMC Immunity	Pending
	Dimension	245"125"65mm (L"W"H)

#### MECHANICAL DRAWING:

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