



# 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   2   3   4**

|   |                                |
|---|--------------------------------|
| 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           | $\pm 1\%$  |                 |
|              | 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) |
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## MECHANICAL DRAWING:

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