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TECHNOLOGY GROUP

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RO ASSOCIATES

# QUASI-MILITARY

## 500-840 WATTS
## RUGGEDIZED HIGH POWER
## SERIES 700R

## DESCRIPTION

The RO 700R Series is designed for rugged applications requiring stringent environmental specifications. The 700R Series provides up to 750 watts of output power.



## FEATURES

- Ruggedized design
- Low profile (3.34" high)
- Upgraded parts
- Random vibration tested
- Thermal shock tested
- Brownout protection to below 95 or 190 VAC

## COMMON SPECIFICATIONS

**Input**
105 to 130/198 to 265 VAC (selectable on barrier block) 47-63 Hz also 300 VDC ±10%. Brownout protection to 90/180 VAC. Optional 47-400 Hz fan available.

**Protection**
All outputs have current limiting and short circuit protection. 5 volt outputs have self-recovering overvoltage protection which allows logic to operate even through a fault condition. Thermal protection is provided by a thermostat which opens the input power if the case temperature goes above 80°C.

**Operating temperature**
−20°C to +80°C case.

**Power fail**
(Optional)

**Weight**
Approximately 14 lbs. (6.3 kilograms)

**Mounting**
Mounting on bottom by means of 6, 10-32 tapped inserts.

**Logic turn on/off (Optional)**
$T^2L$ compatible logic turn on/turn off when 5V @ 15 MA signal is applied to terminals.

**EMI filter**
Optional external filter will meet VDE 0871(A) and FCC specs for conducted emissions. Corcom filter 10SPI is recommended.

**Cooling**
Forced air cooling internal to the power supply assures that full output power can be drawn until the case reaches 80°C.

**Remote sensing**
All main outputs have remote sensing

**Size**
8" x 3.34" x 13.5"
(20.5 cm x 8.5 cm x 34.3 cm)

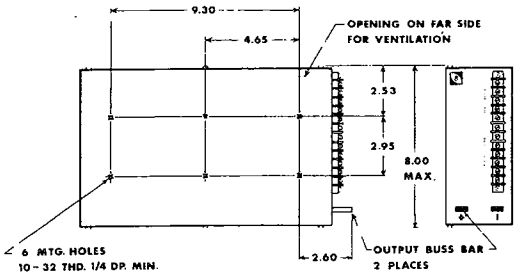
**Voltage transient**
MIL-STD 1399 Section 300 Type I,115V

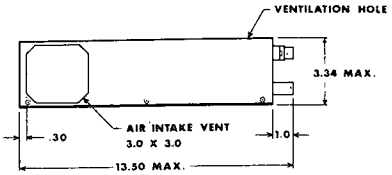
**Random vibration**
20-80Hz at +3dB/Octave, 80-350Hz at $0.04g^2/Hz$, 350-2000Hz at −3dB/Octave, 6.07g RMS overall, 10 minutes/axis

**Thermal shock**
MIL-STD-202F, Method 107G

**Humidity**
MIL-STD-202F, Method 103B, Cond. B

**Components**
IC's screened to MIL-STD-883B, selected Jan semiconductors where available.




## SINGLE OUTPUTS

| Model | Volts | Amps | Regulation | | Ripple & Noise | Price |
|---|---|---|---|---|---|---|
| | | | O-FL | Line ±10% | DC-10MHz | 1-99 |
| 710R | 5V | 100A | 10mV | 5mV | 100mV p-p | |
| 715R | 5V | 150A | 10mV | 5mV | 100mV p-p | |
| 750R | 12-15V | 40A | 15mV | 10mV | 100mV p-p | |
| 751R | 24-28V | 20A | 20mV | 10mV | 150mV p-p | |

## MULTIPLE OUTPUTS

| Model | Volts | Amps | Regulation*** | | Ripple & Noise | Price |
|---|---|---|---|---|---|---|
| | | | O-FL | Line ±10% | DC-10MHz | 1-99 |
| 713R | 5V | 50A | 10mV | ±5mV | 100mV p-p | |
| | +(12-15)VDC | 10A | 0.5% | ±0.2% | 2% | |
| | −(12-15)VDC | 10A | 0.5%V | ±0.2% | 2% | |
| 724R | 5V | 50A | 10mV | ±5mV | 100mV p-p | |
| | +24 | 4A | 10% | ±2% | 2% | |
| | +(12-15)VDC | 6A | 0.5% | ±0.2% | 2% | |
| | −(12-15)VDC | 6A | 0.5% | ±0.2% | 2% | |
| 725R | 5V | 50A | 10mV | ±5mv | 100mV p-p | |
| | +(12-15)VDC | 6A | 0.5% | ±0.2% | 2% | |
| | −(12-15)VDC | 6A | 0.5% | ±0.2% | 2% | |
| | 2-5VDC | 10A | 50mV | ±10mV | 100mV p-p | |
| 753R | 22VDC | 10A | 20mV | ±10mV | 100mv p-p | |
| | 15VDC | 10A | 75mV | ±30mV | 150mV p-p | |

***MINIMUM 5A load on +5V is required for auxiliary outputs to regulate.

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