



# QUASI-MILITARY

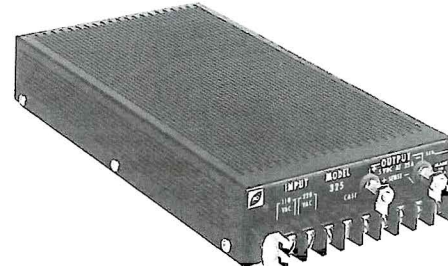
75-150 WATTS

MIL-STD-810C

SERIES 300ST

## DESCRIPTION

The RO Series 300ST is designed for military ground support equipment, shipboard environments, and mobile ground applications over rugged terrain.



## FEATURES

- Meets MIL-STD's
- Low profile 1.7"
- Ruggedized design
- 115/230 VAC input without any strapping
- Fully protected
- Full power out at 80°C case temperature
- Brownout protection to below 95 or 190 VAC
- Parallelable (consult factory for procedure)
- Up to 1.6 W per cubic inch
- Soft start limits inrush to 13 amps max.

## COMMON SPECIFICATIONS

### Input

105 to 130/198 to 265 VAC (selectable on barrier block) 47 1000 Hz also 300 VDC  $\pm 10\%$ . Brownout protection to 90/180 VAC.

### Protection

All outputs are current limited, continuous overload and short circuit proof. Single outputs have self-recovering overvoltage protection. Thermal protection is provided by a thermal relay which opens the power input if the case temperature goes above 80°C. Multiple outputs have self-recovering OVP on the 5V output only.

### Operating temperature

-40°C to +80°C case (no derating)

### Cooling

Maximum mounting base temperature for full output is 80°C. For no (air or conductive cooling), maximum ambient temperature of 30°C for full power output.

### Remote sensing

All models have remote sensing.

### Temperature stability

Better than .02%/°C.

### Size

11.12" x 5.29" x 1.75". Single outputs.  
(28.3 cm x 13.5 cm x 4.3 cm).

10.55" x 5.29" x 1.75". Multiples.

### Storage temperature

-55°C to +85°C

### Weight

5.5 lbs.

### Mounting

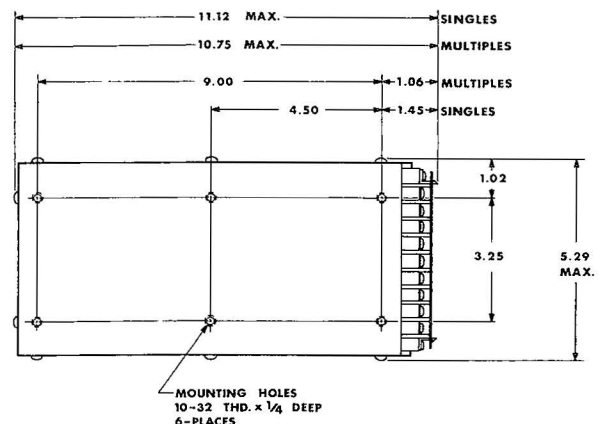
Mounting on bottom by means of 6, 10-32 tapped inserts.

### EMI filter

Will meet VDE 0871(A) and FCC spec for conducted emissions using an external filter. Corcom filter 3SPIA is recommended. For MIL 461A, Captor A4581 is recommended.

### MTBF

115,000 hours as calculated by MIL-HDBK-217C. (Model 325)



## MILITARY SPECIFICATIONS

Mil Spec		Method/Procedure	
MIL-STD-810C	Low Pressure	Method 500.1	Proc. I
MIL-STD-810C	High Temp.	Method 501.1	Proc. I,II
MIL-STD-810C	Low Temp.	Method 502.1	Proc. I
MIL-STD-810C	Temp. Shock	Method 503.1	Proc. I
MIL-STD-810C	Temp. Alt.	Method 504.1	Proc. I Class 2 (-20°C operating)
MIL-STD-810C	Humidity	Method 507.1	Proc. I,II
MIL-STD-810C	Fungus	Method 508.1	Proc. I
MIL-STD-810C	Salt Fog		
MIL-STD-810C	Sand & Dust	Method 510.1	Proc. I
MIL-STD-810C	Explosive Atmosphere	Method 511.1	Proc. I
MIL-STD-810C	Vibration	Method 514.2	Proc. VIII Curve W,XI
MIL-STD-810C	Shock	Method 516.2	Proc. I,IV Ground Equip. Fig. 516.2-2
MIL-STD-810C	Temp.-Humidity-Alt.	Method 518.1	Proc. I
MIL-STD-901C	High Shock	Grade A, Class 1 Type A	
MIL-STD-461	RFI Conducted	With external filter	
MIL-STD-1399	Voltage Transient	Type I	Single Phase
MIL-T-288CC	Random Vibration	Nav. Mat. Pub. P- 9492 May, 1979 4.5.3.1.C	

## SINGLES

Model	Volts	Amps	Regulation		Ripple & Noise	Price 1-99
			Load	Line ±10%	DC-10MHz	
325ST	5VDC	25	5mV	3mV	60mV p-p	
325STC	6VDC	20	5mV	3mV	60mV p-p	
350ST	12-15VDC	10	10mV	5mV	50mV p-p	
351ST	24-28VDC	5	20mV	10mV	100mV p-p	

## DUALS

302ST	±15VDC	±3A	10mV	5mV	50mV p-p 10mV rms	
303ST	±12VDC	±3A	10mV	5mV	50mV p-p 10mV rms	

## MULTIPLES

312ST	(A) 5VDC	10A	5mV	5mV	60mV p-p	
	(B) ±12VDC	±1A	10mV	5mV	60mV p-p	
313ST	(A) 5VDC	10A	5mV	5mV	60mV p-p	
	(B) ±15VDC	±1A	10mV	5mV	60mV p-p	
314ST	(A) 5VDC	10A	5mV	5mV	60mV p-p	
	(B) 12VDC	2A	10mV	5mV	60mV p-p	
315ST	(A) 5VDC	8A	5mV	5mV	60mV p-p	
	(B) 12VDC	3A	10mV	5mV	60mV p-p	
316ST	(A) 5VDC	12A	5mV	5mV	60mV p-p	
	(B) 12VDC	1A	10mV	5mV	60mV p-p	