

DUAL 150 WATT DC-DC CONVERTERS

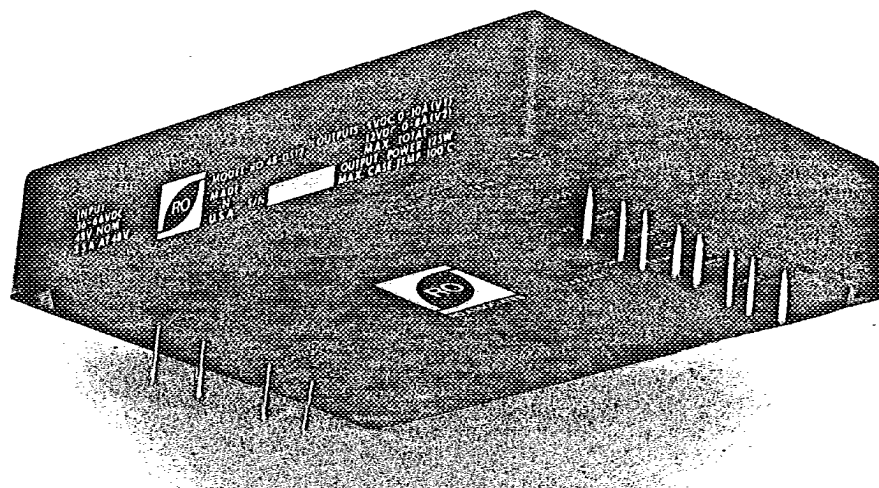
The RO Dual Series provides a choice of outputs in a compact package.

Paired with an RO Series single output the combination provides three outputs at 300 watts. A typical application is 5V at 25 Amps and $\pm 12V$ at 6 Amps.

Standing alone, or in combination with other RO Series converters, these dual units offer advantages in size and cost. The table below illustrates the flexibility in choice of outputs.

FEATURES

- 48 & 300 VDC Input
- 5, 12, 15 Volt Outputs
- Fault Tolerant - True N+1 Redundancy
- Constant Frequency Operation
- Hot Plug in Capability
- Parallelable With Auto Current sharing, No Master Slave
- -55° to 100°C Baseplate Operating Temperatures
- Non-Shutdown OVP
- UL/CSA/TUV Compliance
- Rugged-meets MIL 810D
- Thermal Protection - Auto Reset
- Input Overvoltage Protection
- Logic On/Off
- Five Sided Shielding



4.85" X 3.38" X .98"

MODEL SELECTION

INPUT VOLTAGE	OUTPUTS				MODEL
	V1 VOLTAGE	V1 CURRENT	V2 VOLTAGE	V2 CURRENT	
48V	12V	8A*	12V	8A*	RO 48-D12
48V	5V	10A**	12V	8A**	RO 48-D512
48V	5V	12A	5V	12A	RO 48-D5
48V	15V	5A**	15V	5A**	RO 48-D15
300V	12V	8A*	12V	8A*	RO 300-D12
300V	5V	10A*	12V	8A*	RO 300-D512
300V	5V	12A	5V	12A	RO 300-D5
300V	15V	5A*	15V	5A*	RO 300-D15

*Maximum total output current 12A.

**Maximum total output power 125W.

SPECIFICATIONS	RO48D SERIES	RO300D SERIES	UNITS
INPUT: Input voltage In rush charge Input reflected ripple (f.l.nom line) No load power dissipation Logic disabled current (sink) Logic disabled power in Input ripple rejection (120 Hz) Input overvoltage (No damage to unit)	36-66 2.1×10^{-4} 20 10 1 0.35 60 66-100	200-400 3×10^{-6} 10 12 1 1 60 400-450	VDC Coulombs % watts ma watts dB VDC
OUTPUT: Set point accuracy Load regulation (0-100%) Line regulation (over range) Ripple (0-10MHz) Trim Range (optional) Remote Sense compensation OVP (non shutdown aut rec.) Current Limit (aut rec) Current sharing (automatic) Transient response (20-80% load) Vout 1% Transient response (LL to HL) Vout 1% Transient response (50-100% load) Vout 1% Temp drift	± 1 .2 .2 1 ± 10 0.5 120 110-120 ± 10 2 500 2 .02	± 1 .2 .2 1 ± 10 0.5 120 110-120 ± 10 2 500 2 .02	% % % % p-p % V total % % f.l. % ms us ms %/°C
CONTROL: Turn on time (power applied) Vout 1% Logic turn on time (Vout 1%)	30 6	110 6	ms ms
ISOLATION: Input to output Input to case Output to case Input to output capacity	5500 3500 500 2200	5500 3500 500 7600	VDC VDC VDC pF
THERMAL: Operating temperature Automatic shutdown temperature Thermal resistance case to ambient (f.l.)	-55 to 100 105-110 2.5	-55 to 100 105-110 2.5	°C case °C case °C/w
WEIGHT:	24	24	oz.

