

UHF Power Amplifier R&S $^{\circ}$ VD 480L

For ground-to-air and naval applications

- High output power
- Continuous operation (100% duty cycle)
- ◆ Automatic AC/DC switch over
- Support of fixed-frequency and ECCM (EPM) systems
- Data operation up to 16 kbit/s for wideband AM/FM
- Power management: normal/high power mode selectable
- Use in 230 V AC or 110 V AC environment (different models available)
- LED service indication
- Graceful power degradation in case of poor VSWR at output
- Automatic switchoff at critical temperature
- High reliability



General data		
Frequency range	225 MHz to 400 MHz	
RF gain		
Range	4 dB to 10 dB (factor 2.5 to 10)	
Setting	factory-set via customized EEPROMuser-programmable with R&S®ZT480L	
RF output power	nominal maximum ¹⁾	
AM carrier	100 W	
FM	150 W 200 W	
AM PEP (peak envelope power)	400 W 500 W	
Unwanted emissions		
Harmonics attenuation	>80 dBc ²⁾	
Spurious attenuation	>80 dBc ²	
Backward intermodulation products (with interfering signal 20 dB below wanted signal)	65 dB below wanted signal	
Modulation characteristics		
Classes of emission	AM, FM, other on request	
AF bandwidth	depending to exciter	
S/N ratio (AM)	>45 dB ²⁾	
AF distortion	<10 %2)	
Power supply		
AC	AC I: $100/110/120 \text{ V} \pm 10\%$, 50 Hz to 60 Hz AC II: $210/220/230 \text{ V} \pm 10\%$, 50 Hz to 60 Hz AC range depending on model AC conversion kit: on request	
DC	26.5 V ± 10 %, operational down to 21.5 V ¹⁾	
AC/DC switchover	automatic	

1.6 kW/2.2 kVA max.
40 A max.
IP 20, EN 60215, EN 60950-1
–20 °C to +55 °C
–40 °C to +70 °C
95% at +40°C (without condensation)
95 % at +40 °C
3000 m above sea level
5000 m above sea level
30 g for 6 ms, 3 shocks in 3 positions
0.3 mm double amplitude, 10 Hz to 55 Hz, total test period 30 min.
483 mm × 265 mm × 471 mm, 19" 6 HU plug-in
approx. 55 kg

Ordering information

Designation	Туре	Order No.
UHF Power Amplifier	R&S®VD 480L	6032.0504.xx
(19" 6 HU plug-in, delivered with AC mains cable, DC cable socket, fuses etc)		$\begin{split} xx &= 22 (230 \text{V etc, without bypass relay}) \\ xx &= 23 (230 \text{V etc, RF bypass dual relay}) \\ xx &= 32 (110 \text{V etc, without bypass relay}) \\ xx &= 33 (110 \text{V etc, RF bypass dual relay}) \end{split}$
Programmer	R&S®ZT480L	6043.5948.02
		STTE: special-type test equipment for reprogramming of the EEPROM for optimum operation, e.g. after repair work or in connection with non-Rohde & Schwarz exciters

¹⁾ With reduced specifications.

More information at www.rohde-schwarz.com (search term: VD480L)











www.rohde-schwarz.com

 $^{^{2)}}$ Ref. to AM (m = 0.85; $\rm f_{m}=1~kHz)$ and nominal supply voltage. In addition the exciter values are applicable.