

## STANDARD MODELS

Model	Frequency Range	Output Power $P_N$ min / typ W	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
TWAL 0103-500E	1 ... 2.5 GHz	500 / 600	57 / 62 ±5	2 / 10	3500	4 HU, 730 mm	40
TWAL 0103-1000E	1 ... 2.5 GHz	1000 / 1100	54 / 61.5 ±7.5	3 / 10	7000	12 HU, 800 mm	100

1 HU = 44.45mm

## STANDARD SPECIFICATIONS

<b>Input Power:</b>	0 dBm (1 mW) max.
<b>Overdrive Protection:</b>	up to +10 dBm for no damage
<b>Input Impedance:</b>	50 Ohm nominal
<b>Output Impedance:</b>	50 Ohm nominal
<b>Input VSWR:</b>	<2:1 typ.
<b>Load VSWR:</b>	2:1 max. für $P_N$ -0.5 dB;
	infinite for no damage
<b>Spurious (at <math>P_N</math>):</b>	-50 dBc typ. (excluding harmonics)
<b>Noise:</b>	1 ... 18 GHz      -20 dBm / MHz
	18 ... 40 GHz     -35 dBm / MHz
<b>Class of Operation:</b>	A-linear

## GENERAL

<b>RF Input:</b>	1 ... 18 GHz	N-f; standard on rear panel
	18 ... 40 GHz	2.92 mm-f; standard on rear panel
<b>RF Output:</b>	1 ... 8 GHz	N-f
	6 ... 18 GHz	WRD 650
	8 ... 18 GHz	WRD 750
	18 ... 40 GHz	WRD 180
<b>Sample Port:</b>	-50 dB forward	
<b>Mains Supply:</b>	200 ... 264 V AC	47 ... 63 Hz
<b>Ambient Temperature:</b>	0 ... +40 °C	
<b>Storage Temperature:</b>	-20 ... +85 °C	
<b>Relative Humidity:</b>	up to 95% (non-condensing)	
<b>Operating Altitude:</b>	up to 2000 m above sea level	
<b>Vibration and Shock:</b>	normal laboratory environment	
<b>Cooling:</b>	forced air with integral blower air intake and exhaust at rear	

## OPTIONS

A) RF Monitor Outputs	G) Output Isolator
B) External Dual Directional Coupler	L) LAN Remote Control
C) IEEE-488.2 GPIB Remote Control	N) Harmonic Filter
D) Front Panel RF Connectors	R) RS-232C Remote Control
E) Power Indication (digital)	U) USB Remote Control
F) Gain Adjustment	