

STANDARD MODELS

Model	Frequency Range	Output Power P _P min / Duty W / %	Pulse Width max. **)	Gain typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
TWAP 0812-5000	8 ... 12 GHz					1600	6 HU, 630 mm	48
	8 ... 12 GHz	5000 / 6	50 µs	72 ±5	10 / 20			
	12 ... 12.4 GHz	4000 / 6	50 µs	71 ±5	20 / 20			

1 HU = 44.45 mm

STANDARD SPECIFICATIONS

Input Power:	0 dBm (1 mW) max.
Overdrive Protection:	up to +10 dBm for no damage
Input Impedance:	50 Ohm nominal
Output Impedance:	50 Ohm nominal
Input VSWR:	<2:1 typ.
Load VSWR:	infinite for no damage (100% mismatch tolerant)
	P _N -0.5 dB min. at VSWR 2:1
PRF at 1 µs Pulswidth:	100 kHz (Duty e.g. 6%)
PRF at 100 µs Pulswidth:	1 kHz (Duty e.g. 6%)
Spurious (at P _N):	-60 dBc min. (excluding harmonics)
Class of Operation:	A-linear

GENERAL

RF Input:	N-f, standard on rear panel
RF Output:	WR 90, standard on rear panel
Mains Supply:	200 ... 240 V AC ±10%, 47 ... 63 Hz
Elapsed Time Meter:	via status display
Ambient Temperature:	0 ... +45 °C
Storage Temperature:	-20 ... +85 °C
Relative Humidity:	up to 95% (non-condensing)
Operating Altitude:	up to 2000 m above sea level
Vibration and Shock:	MIL-STD-810 G
Cooling:	forced air with integral blower air intake from front, air exhaust at rear

OPTIONS

A) Sample Ports *)	L) LAN Remote Control
B) External Dual Directional Coupler	R) RS-232C/RS-485 Remote Control
C) IEEE-488.2 GPIB Remote Control	S) Internal RF Switching Unit *)
D) Front Panel RF Connectors	U) USB Remote Control

TWAP 8 ... 12 GHz Pulsed TWT Amplifiers

E) RF Power Indication (digital) *)
F) Gain Adjustment *)
G) Output Isolator *)
H) DC Supply
I) 3x 208 V AC / 60 Hz
J) 100 V AC

W) Liquid Cooling
X) External Control of other Amplifiers

*) These options may reduce output power and/or gain
**) Optionally other pulse width available