

## STANDARD MODELS

Model	Frequency Range	Output Power P <sub>P</sub> min / Duty W / %	Pulse Width max. **)	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
TWAP 1218-3500	12.4 ... 18 GHz	3500 / 6	50 μs	65.4 / 71 ±5	15 / 15	1500	6 HU, 800 mm	48

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 <sub>N</sub> -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 <sub>N</sub> ):	-60 dBc min. (excluding harmonics)
Class of Operation:	A-linear

## GENERAL

RF Input:	N-f, standard on rear panel
RF Output:	WR 62, standard on rear panel
Mains Supply:	100 ... 240 V AC, 47 ... 63 Hz
Elapsed Time Meter:	via status display
Ambient Temperature:	0 ... +45 °C
Storage Temperature:	-25 ... +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 Option W: Liquid cooling External heat exchanger required

## 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 12.4 ... 18 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