TWAP 12.4 ... 18 GHz
Pulsed TWT Amplifiers

BONN Elektronik
RF POWER IS OUR PASSION

STANDARD MODELS

Model	Frequency Range	Output Power P_P 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 1218-11000	12.4 ... 18 GHz	11000 / 6	50 µs	70.4 / 75.5 ±5	20 / 20	6000	24 HU, 800 mm	220

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 62, standard on rear panel
Mains Supply:	3x 400 V AC ±10%, 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 *)
B) External Dual Directional Coupler
C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF Connectors
L) LAN Remote Control
R) RS-232C/RS-485 Remote Control
S) Internal RF Switching Unit *)
U) USB Remote Control

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