

BPA / TWAP

12 ... 18 GHz

Pulsed Amplifiers

Standard Models

Model	Frequency Range	Output Power P _P min / Duty W / %	Gain typ dB	Harmonics 2nd / 3rd dBc typ	Line Power W	Dimensions (H,D) 19"-System	Weight kg
TWAP 1218–3000	12 ... 18 GHz	3000 6%	68.3 ±7.5	10 / 15	1800	4 HU, 630 mm	35

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:	2:1 max. for P _N –0,5 dB infinite for no damage
Pulse Width	0.2 ... 20 µs optionally other ranges available
PRF	1000 W: 20 kHz max. optionally: 100 kHz max.
Rise-/Falltime	100 ns
Droop	0.5 dB
Pulse to Pulse Stability:	0.1 dB
Spurious (at P _P):	–50 dBc typ.(excluding harmonics)
Class of Operation:	A–linear

General:

RF Input:	N–f; standard on rear panel
RF Output (4 GHz):	standard on rear panel 2 kW: N–f > 2 kW: 7–16–f
RF Output (>4 GHz):	standard on rear panel 4 ... 8 GHz: WRD 350 8 ... 12 GHz: WR 90 8 ... 18 GHz: WRD 750 12 ... 18 GHz, WR 62
RF Monitor Output	–50 dB forward
Pulse Input:	BNC–f; standard on rear panel
Mains Supply:	100 ... 264 V AC / 47 ... 63 Hz
Elapsed Time Meter:	integrated
Ambient Temperature:	0 ... +45 °C
Storage Temperature:	–20 ... +70 °C
Relative Humidity:	up to 95% (non–condensing)
Operating Altitude:	up to 2000 m above sea level
Vibration and Shock:	normal laboratory environment
Cooling:	forced air with integral blower, air intake at front and air exhaust at rear

Options:

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|--------------------------------------|---------------------------|
| A) Reverse Monitor | P) Extended Pulse Width |
| B) External Dual Directional Coupler | R) RS–232C Remote Control |
| C) IEEE–488.2 GPIB Remote Control | U) USB Remote Control |
| G) Harmonic Filter | |

Specifications are subject to change without notice

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