# TWAP 8 ... 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 0818-2000 | 8 ... 18 GHz | 2000 / 4 | 50 µs | 63 / 69 ±6 | 7 / 18 | 1300 | 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)<br>$P_N$ -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:** | WRD 750, 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<br>air intake from front, air exhaust at rear<br>Option W: Liquid cooling<br>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