# **BLWA** 20 MHz ... 40 GHz
# Solid State Amplifiers

BONN Elektronik
RF POWER IS OUR PASSION

## STANDARD MODELS

| Model | Frequency Range | Output Power $P_N$ min / typ W | Gain min / typ dB | Harmonics 2nd / 3rd dBc | Line Power VA | Dimensions (H, D) 19"-System | Weight kg |
|---|---|---|---|---|---|---|---|
| BLWA 0240-5/3/0.8 | 20 MHz ... 40 GHz | | | | 200 | 3 HU, 430 mm | 18 |
| | 20 MHz ... 1000 kHz | 5 / 6 | 37 / 39 ±2 | 20 / 20 | | | |
| | 1 ... 18 GHz | 3 / 3.3 | 34.8 / 39 ±4 | 15 / 15 | | | |
| | 18 ... 40 GHz | 0.8 / 0.9 | 29 / 33 ±4 | 7 / 15 | | | |

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 |
| **Spurious (at $P_N$):** | -60 dBc min. (excluding harmonics) |
| **Class of Operation:** | A-linear |

## GENERAL

| | |
|---|---|
| **RF Input:** | 2.92 mm-f, standard on front panel |
| **RF Output:** | 2.92 mm-f, standard on front 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) RF-Sample Ports
B) External Dual Directional Coupler
L) LAN Remote Control
P) Precise RMS RF Power Sensor (internal)

C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF Connectors
E) RF Power Indication (digital)
F) Gain Adjustment
H) DC Supply
I) 3x 208 V AC / 60 Hz
R) RS-232C/RS-485 Remote Control
S) Internal RF Switching Unit
U) USB Remote Control
W) Liquid Cooling
X) External Control of other Amplifiers