

## STANDARD MODELS

| Model           | Frequency Range | Output Power<br>$P_N$ min / typ<br>W | Gain<br>min / typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>VA | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|-----------------|-----------------|--------------------------------------|-------------------------|-------------------------------|------------------|------------------------------------|--------------|
| BLWA 0210-10000 | 20 ... 100 MHz  | 10000 / 11000                        | 70 / 72 ±2              | 20 / 12                       | 50000            | 2x 37 HU, 800 mm                   | 1000         |

1 HU = 44.45 mm

## STANDARD SPECIFICATIONS

|  |   |
|--|---|
| <b>Input Power:</b>                    | 0 dBm (1 mW) max.                               |
| <b>Overdrive Protection:</b>           | up to +10 dBm for no damage                     |
| <b>Input Impedance:</b>                | 50 Ohm nominal                                  |
| <b>Output Impedance:</b>               | 50 Ohm nominal                                  |
| <b>Input VSWR:</b>                     | <2:1 typ.                                       |
| <b>Load VSWR:</b>                      | infinite for no damage (100% mismatch tolerant) |
|  | $P_N$ -0.5 dB min. at VSWR 2:1                  |
| <b>Spurious (at <math>P_N</math>):</b> | -60 dBc min. (excluding harmonics)              |
| <b>Class of Operation:</b>             | A-linear or AB-linear                           |

## GENERAL

|                             |   |
|-----------------------------|---|
| <b>RF Input:</b>            | N-f, standard on rear panel   |
| <b>RF Output:</b>           | 1 5/8, standard on rear panel   |
| <b>Mains Supply:</b>        | 3x 400 V AC ±10%, 47 ... 63 Hz  |
| <b>Elapsed Time Meter:</b>  | via status display  |
| <b>Ambient Temperature:</b> | 0 ... +45 °C  |
| <b>Storage Temperature:</b> | -25 ... +85 °C  |
| <b>Relative Humidity:</b>   | up to 95% (non-condensing)  |
| <b>Operating Altitude:</b>  | up to 2000 m above sea level  |
| <b>Vibration and Shock:</b> | MIL-STD-810 G   |
| <b>Cooling:</b>             | 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                   | L) LAN Remote Control                     |
| B) External Dual Directional Coupler | P) Precise RMS RF Power Sensor (internal) |
| C) IEEE-488.2 GPIB Remote Control    | R) RS-232C/RS-485 Remote Control          |
| D) Front Panel RF Connectors         | S) Internal RF Switching Unit             |
| E) RF Power Indication (digital)     | U) USB Remote Control                     |
| F) Gain Adjustment                   | W) Liquid Cooling                         |

# BLWA 20 ... 100 MHz Solid State Amplifiers

H) DC Supply  
I) 3x 208 V AC / 60 Hz

X) External Control of other Amplifiers