BPBS12

2025 – 2125 or 2200 – 2300 MHz
1kW AMPLIIFIER

- **1 kW OUTPUT POWER**
- **CLASS "AB" OPERATION**
- **1:1 REDUNDANCY**
- **FULL REMOTE CONTROL & MONITORING**
- **ALC FUNCTION**
- **FORWARD POWER MONITOR**
- **REFLECTED POWER MONITOR**
- **OVER-TEMPERATURE PROTECTED**
- **BUILT-IN ISOLATOR**

The BPBS12 is a high power solid state amplifier, intended for use as power booster in satellite telecommunication systems. It can be used also in ground stations or in air-borne or sea-borne applications as well. The amplifier has an effective forced air cooling system, so the dissipated heat is removed from the cabinet with high efficiency. The amplifier system is designed to withstand harsh environmental conditions such as strong vibration. It can also be used effectively for intermodulation test and measurements,as well as for other high power applications. It's compact size, modular design and well isolated RF output guarantee long, trouble free operation.

Electrical characteristics:

Operating frequency band	2025–2125 or 2200-2300 MHz
1 dB Compression Point	60 dBm (1kW) typ. 59 dBm min.
Nominal Gain	60 dB
Gain Ripple	± 0,5 dB typ. ± 1 dB max.
Gain control	> 30 dB in 1 or 0,5 dB step
Harmonics	< - 60 dBc
Spourious	< - 60 dBc
3^{th} order intermodulation	-25 dBc @ P1dB –3 dB
Noise	< -140 dBm/Hz @ f<1,9 GHz
RF Input Connector	N-F
RF Output Connector	7/16-F
Control & Monitor Connector (*)	RS485 or Ethernet
Supply Voltage	28 V DC or 230 V AC
Efficiency	20% typ.
Heatsink Operating Temp. Range	0 to +50 °C (opt.-20 °C to +65 °C)
Dimension	1012 x 800 x 600 mm (19" x 21U x 800mm)

Proper heatsink is required. Specifications are subject to change without notice.
(*) Temperature, forward power, reflected power and ALC level monitoring, over-temperature protection, RF and DC shutdown.

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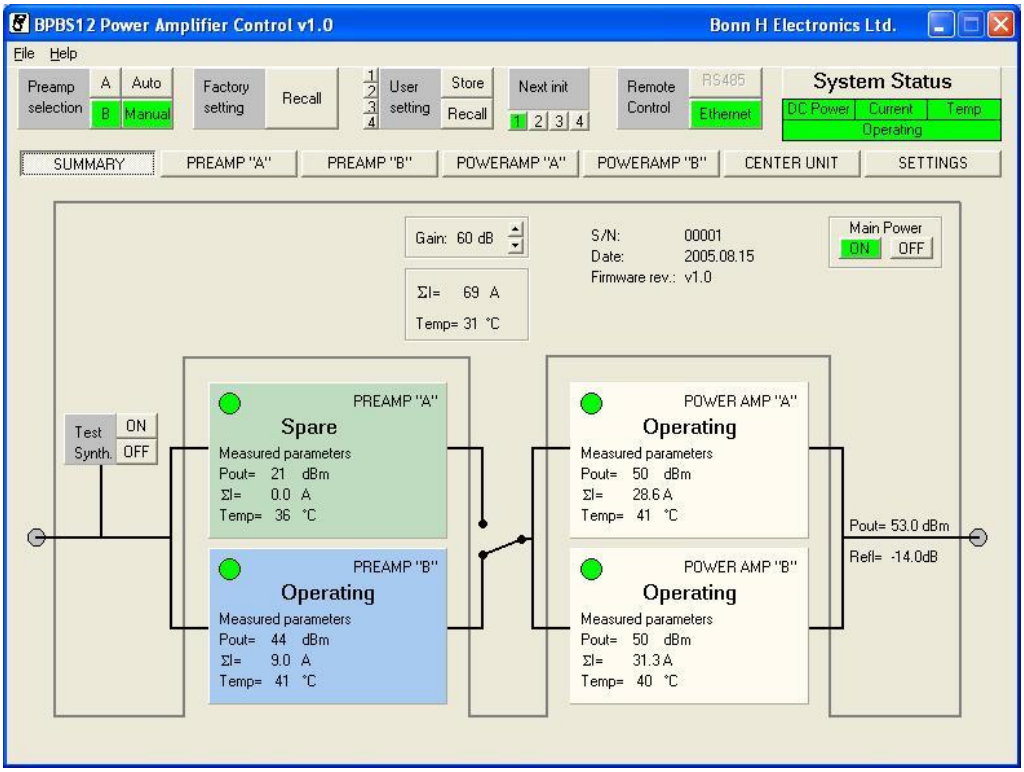
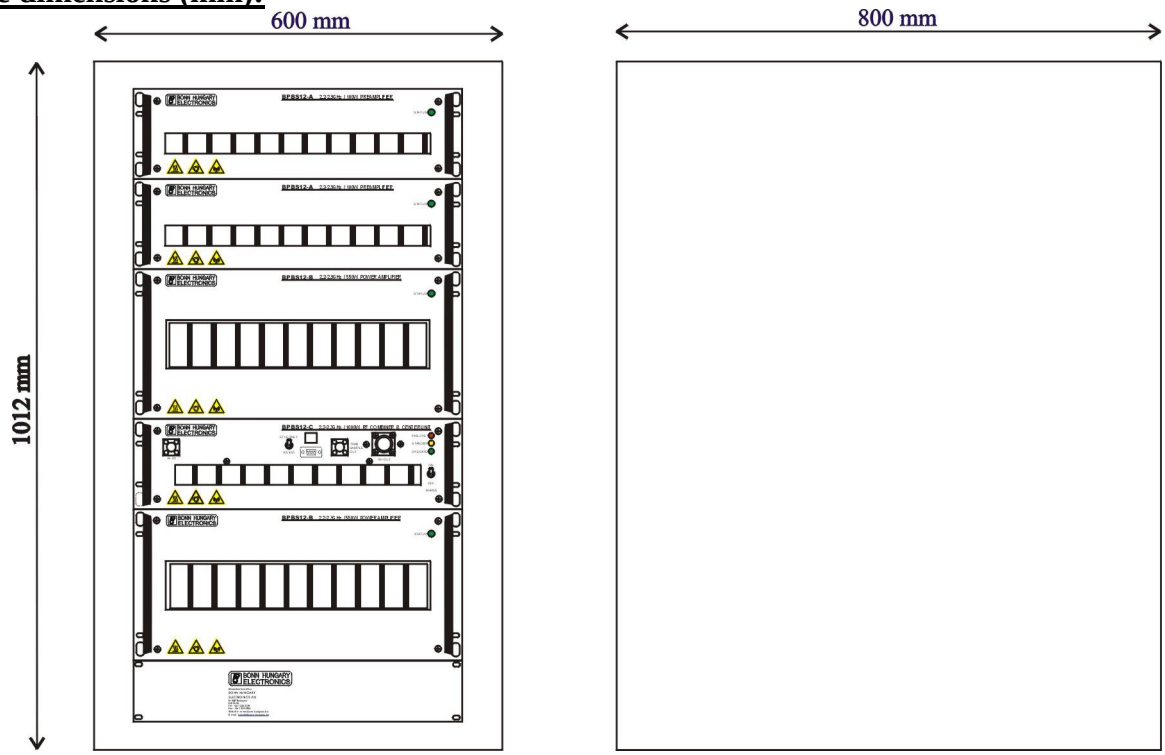
Control software summary screen:



Outline dimensions (mm):



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