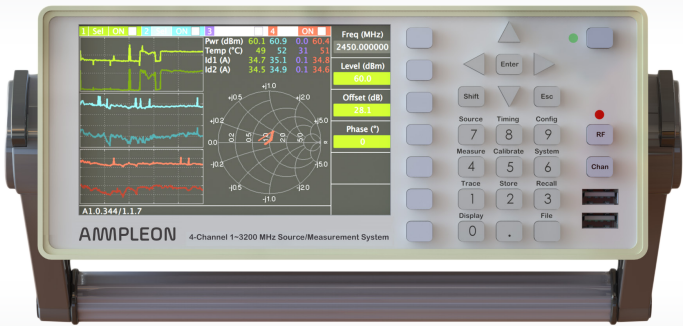# AMPLEON

Evaluation tools for RF energy

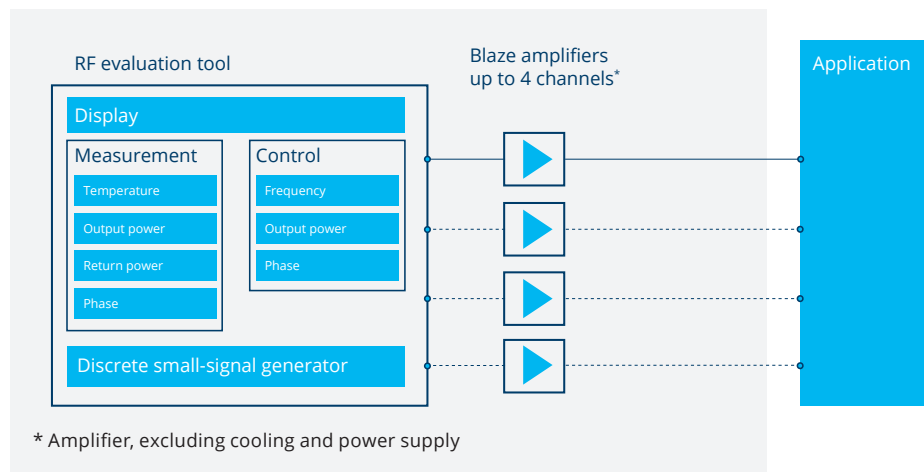# Plug-and-play evaluation tools for RF energy

A cleaner, more efficient and effective power source - that is the promise of RF energy. From solid-state cooking and RF sparkplugs to RF plasma lighting and medical therapy, the possibilities are boundless. Ampleon's plug-and-play evaluation tools enable our customers to explore the possibilities of solid-state RF energy, develop their applications and shorten time to market.

RF evaluation tool

RF amplifier reference design

Ready-to-use RF energy system
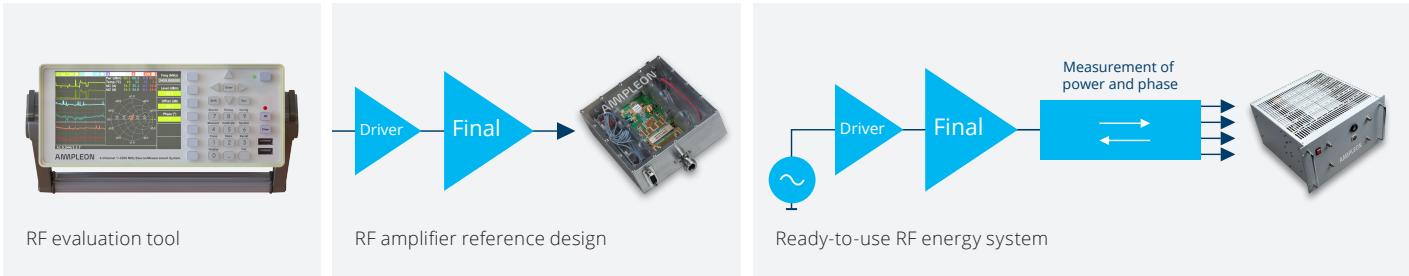
Selection guide

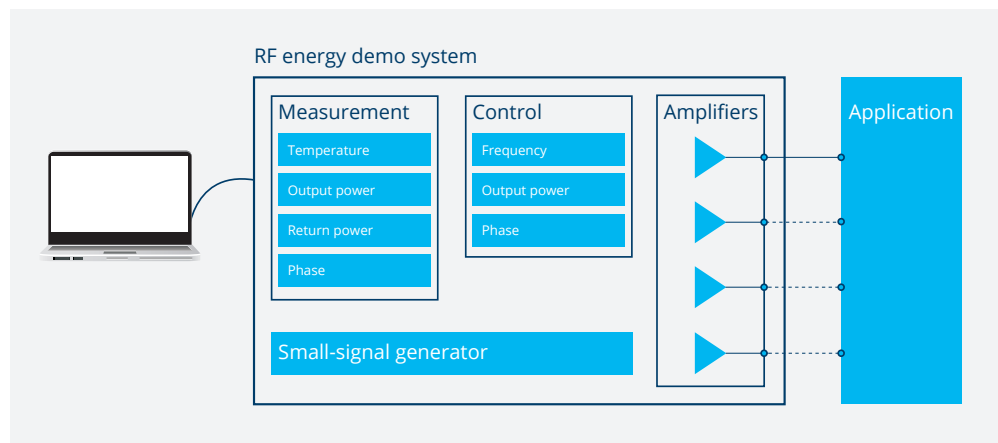|	RF evaluation tool	RF amplifiers			Systems		
Operating frequency	1 - 3200 MHz	2.45 GHz			2.45 GHz		
Amplifier module	Exciter	Blaze 250	µBlaze 250	Blaze 500	Blaze 250	µBlaze 250	Blaze 500
Channels	4	1	1	1	4	4	2
Output power	4 x 37 dBm	300 W	250 W	600 W	4 x 300 W	4 x 250 W	2 x 600 W
Input power	N/A	23 dBm	21 dBm	23 dBm	N/A	N/A	N/A
Temperature measurement	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input voltage	90-250 V	28-32 V	28-32 V	28-32 V	90-250 V	90-250 V	90-250 V
Phase coherent	Yes	N/A	N/A	N/A	Yes	Yes	Yes
Forward power measurement	Yes	N/A	N/A	N/A	Yes	Yes	Yes
Reverse power measurement	Yes	N/A	N/A	N/A	Yes	Yes	Yes
Phase measurement	Yes	N/A	N/A	N/A	Yes	Yes	Yes
Availability	Q1-2016	Now	Q1-2016	Now	Now	Q1-2016	Now
Ordering reference	RF Evaltool 1	Blaze 250-2.45-1	µBlaze 250-2.45-1	Blaze 500-2.45-1	System 250-2.45-1	System 250-2.45-2	System 500-2.45-1

RF evaluation tool and RF amplifier reference design

RF evaluation tool

Blaze amplifiers
up to 4 channels*

Application

Display

Measurement	Control
Temperature	Frequency
Output power	Output power
Return power	Phase
Phase	

Discrete small-signal generator

* Amplifier, excluding cooling and power supply

Key Features

- All control and measurement functions on one screen
- No need for low-level programming
- All possible algorithms can be set and executed
- Labview code can be used as example code for final programming
- For easier programming, a laptop can be connected

Ready-to-use RF energy evaluation tool

RF energy demo system

Amplifiers

Application

Measurement	Control
Temperature	Frequency
Output power	Output power
Return power	Phase
Phase	

Small-signal generator

Key Features

- Plug-and-play RF energy evaluation tool
- No need for low-level programming
- All possible algorithms can be set and executed
- Labview code can be used as example code for final programming

Additional information

For more information, please visit: www.ampleon.com