ROHDE&SCHWARZ
Make ideas real

R&S®NPA POWER ANALYZER FAMILY

All-In-One: The compact power analysis package



Ideal for

- Engineering labs
- General purpose
- Production testing
- Education

Key specifications	
Bandwidth	DC to 100 kHz
Sampling rate	500 ksamples/s
Resolution	simultaneous display of current and voltage, each with 16 bits
Voltage input	up to 600 V (RMS)
Current input	up to 20 A (RMS)
Basic accuracy	0.05 % of reading
Frequency accuracy	0.1 % of reading
Input impedance	2 MΩ

Key features

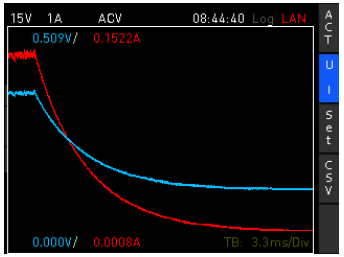
The R&S®NPA power analyzer is the first compact AC/DC load and standby current characterization tester for measurement with no additional tools such as computers or remote infrastructure. The instrument has performance and compliance protocols in line with IEC 62301, EN 50564 and EN 61000 3-2 along with a numerical and graphical display with 26 key parameters.

Your benefit	Features
Clear display of all measured parameters	► Simultaneous display of up to 10 numerical measurement functions ► User configurable measurement display ► Graphical display modes for inrush, harmonic analysis, waveform and trend chart
High measurement accuracy	► Basic accuracy: 0.05 % ► Signal acquisition from DC to 100 kHz at a sampling rate of 500 ksamples/s ► Simultaneous display of current and voltage, each with 16 bit resolution
Everyday measurement functions	► 26 different measurement and mathematical functions ► Limit testing with pass/fail indication for up to six selectable limits

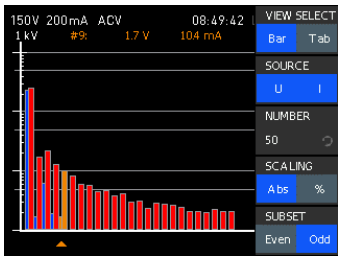
L'IMPULSION électronique
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For more information, visit
www.rohde-schwarz.com/product/NPA

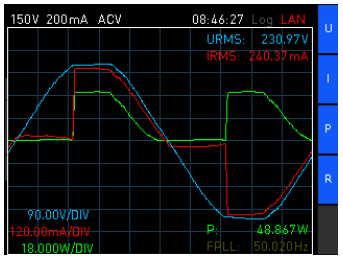
Graphical views



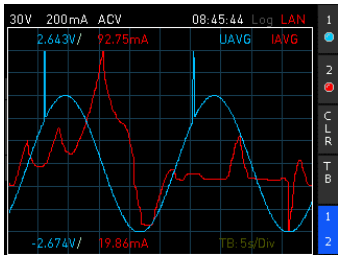
Inrush function



Harmonic analysis function



Waveform function



Trend chart function

Function overview

Function		Description
Basic	P	Active power (W)
	S	Apparent power (VA)
	Q	Reactive power (VAR)
	PF	Power factor (λ)
	PHI	Phase shift (φ)
	FU	Voltage frequency value (Hz)
	FI	Current frequency value (Hz)
	FPLL	Acquisition frequency (Hz)
	URMS	RMS voltage (U RMS)
	UAVG	Average voltage (U AVG)
	IRMS	RMS current (I RMS)
	IAVG	Average current (I AVG)
	UTHD	Total harmonic distortion U
	ITHD	Total harmonic distortion I
	WHM, WHP, WH, AHM, AHP, AH	Energy counter (integrator values)
Advanced & Graphical	UPPeak	Maximum voltage (U PEAK)
	UMPeak	Minimum voltage (U PEAK)
	IPPeak	Maximum current (I PEAK)
	IMPeak	Minimum current (I PEAK)
	PPPeak	Maximum power (P PEAK)
	PMPeak	Minimum power (P PEAK)
	Harmonics	Bar graph of up to 50 harmonics
	Waveform	Waveform display (displays one period of voltage, current or power)
	Trend chart	Current and voltage displayed as a waveform
	Inrush	Triggered display of waveform (single shot)
	Sensor input	Input for current probe/external shunt
	DIN/AIN	Digital/analog inputs and outputs (BNC)
	Limit/pass-fail	Limit display
Compliance evaluation	IEC62301	Standby standard
	EN50564	Extended standby standard
	EN61000-3-2	Harmonic current for EMC, CE approval

Basic functions: All models of R&S®NPA
Advanced & Graphical functions: R&S®NPA501, R&S®NPA501-G, R&S®NPA701, R&S®NPA701-G
Compliance evaluation functions: R&S®NPA701, R&S®NPA701-G

Ordering information

Base units	Item
Power meter, DC to 100 kHz	R&S®NPA101
Power analyzer, DC to 100 kHz	R&S®NPA501
Power analyzer, DC to 100 kHz, GPIB	R&S®NPA501-G
Compliance tester, DC to 100 kHz	R&S®NPA701
Compliance tester, DC to 100 kHz, GPIB	R&S®NPA701-G
Accessories	**Item**
Mains adapter, EU-version	R&S®NPA-Z1
Mains adapter, UK-version	R&S®NPA-Z2
Mains adapter, US version	R&S®NPA-Z3
Mains adapter, CHN/AUS version	R&S®NPA-Z4
19" rackmount kit, 2 HU	R&S®HZC95



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