



19" Amplifier

500-2500 MHz

Overview

A compact, broadband solid-state power amplifier in a 19" rackmount enclosure with integrated Ethernet control and :

- ✓ Instantaneous Bandwidth 500MHz to 2.5 GHz
- ✓ 25 W CW nominal (up to ~30 W PSAT) with ~46 dB gain
- ✓ Integrated Ethernet (Web UI + REST/SCPI), remote ON/OFF, and status LEDs

Applications

- Automated Test Equipment (ATE)
- RF stress & power-sweep testing
- SDR/USRP boosting signal generators
- EMC/EMI pre-compliance and immunity setups
- General-purpose amplification (500–2500 MHz)

Description

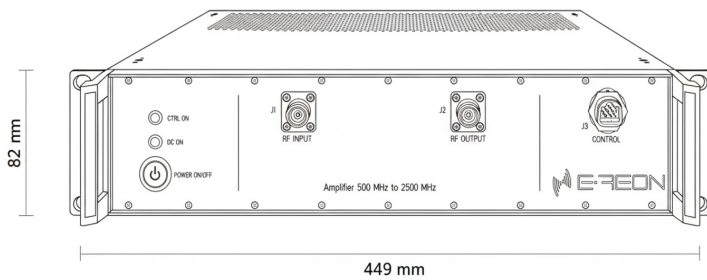
- An Ethernet-controlled, broadband solid-state RF power amplifier covering 500–2500 MHz in a 19" rack chassis. It delivers 25 W CW (\approx 30 W PSAT typ.) with ~46 dB small-signal gain and flat response. The integrated Web UI and SCPI/REST API provide remote ON/OFF, limits, and live Control—including supply current and voltage, heat-sink temperature, fan RPM, alarms, and uptime. Robust protections and quiet forced-air cooling make it easy to integrate into benches, ATE, and RF systems.

Product Features

- ✓ Frequency range: 500 MHz – 2.5 GHz
- ✓ Output power (CW): 25 W nominal, ~30 W PSAT (typ.)
- ✓ Small-signal gain: ~46 dB typ., flatness \pm 1.5 dB typ.
- ✓ Input return loss: \geq 10 dB
- ✓ Harmonics: \leq -15 dBc @ 20 W (typ.)
- ✓ Control: Web UI & SCPI-style over TCP/Telnet
- ✓ Power: AC 100–240 V, 50/60 Hz (internal supply)

Technical Data Specifications

Parameter	Value	Remarks	Note	Condition
Product Name	ERA-05250-25W-ACF-RACK-A			
E-REON P.N.	Z-000028			
Dimensions	449x 88 x 375	[Lx W x H]mm		
RF Connectors	N-type Female		Front	
Noise Figure	~10 dB typ.			
AC Mains	100–240 VAC, 50/60 Hz	V	IEC C14/C20	



Quick Guide

- Connect RF INPUT (J1) and RF OUTPUT (J2) to 50Ω
- Connect AC mains / Turn the POWER switch ON.
- Use DHCP discovery or the default static IP
- Via Web UI or SCPI: OUTP:STAT ON (default ON)
- Verify current and temperature are within limits.

Compliance

RoHS & REACH compliant

This product is fully compliant with RoHS and REACH directives, ensuring safe use and adherence to international environmental standards.

Operating Guidelines

Ensure unobstructed airflow front-to-back; keep inlets/outlets clear by ≥ 100 mm. Operate in a lab environment 0 to +40 °C (typ.). Use a properly earthed AC supply.

About Us

E-REON B.V. is a Dutch technology driven enterprise. Since founding in 2015, our business focus on RF&Microwave Solutions. E-REON's team designs, develop and manufacture RF&Microwave products for commercial, defense and industrial systems.

Ethernet Control

Command Example	Description
*IDN?	Returns model, mfr, serial
OUTP:STAT ON OFF	Enable/disable RF chain
MEAS:CURRE?	Returns IDD (A)
MEAS:TEMP?	Returns heat-sink temp (°C)
SYST:FAN:RPM?	Returns fan tach
SYST:ALARM:STAT?	Returns alarm bitfield/recent log
Web UI: discover via DHCP or browse to default static IP	

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