



Precision Current Transducers



PS1215I PS1215V


Low-Noise Power Supply for Current Transducers

Your **DIGITAL POWER ELECTRONICS**

Partner.




PS1215

- Low Noise Mixed Bipolar AC/DC Power Supply for optimal operation of the  Current Transducers.
- Extended Input Range for Voltage and Frequency.
- "I" and "V" versions include cables for Current and Voltage Output Transducers respectively.

FEATURES


- Mixed Switching/Linear Topology
- 27W Bipolar Output - ± 15 V
- Low Noise
- Extended AC Input Range
- Current-output or Voltage-output version with cables
- LEDs indicate correct operation
- Three-pole screw locking connector

APPLICATIONS

- Power Supply for  Transducers
- Bipolar Supply for Precise Instrumentation
- Test & Measurement Setups

The **PS1215** is a single-output, dual-voltage mixed switching-linear power supply that is designed in order to obtain low-noise operation and high efficiency and it is especially suited for optimal performances of current measurement systems where switching power supplies could corrupt the measure with noise, less accuracy and less precision.

The power supply is housed in a robust and compact stainless steel box that can be placed close to the supplied device in order to reduce cable lengths and minimize consequent possible noise pick-up.

These power supplies are particularly designed for operation with ELS Instruments DC Current Transducers (DCCT) of the  series.

The PS1215 power supply has an output voltage accuracy of $\pm 3\%$ on both its positive and negative outputs. Maximum peak-to-peak voltage noise measured at the device output terminals is rated at 4 mV (measured at full load).

Output DC voltages are made available through a 3-pole connector with a screw locking that allows securing the connection.





The PS1215 power supply can be ordered in three different versions, differing by the output cabling.

The PS1215I version also includes the DB-9 connector and two "banana"-type plugs for the current output of standard transducers, the PS1215V version includes the same cabling with BNC coaxial connector for voltage-output ones.



About Us

ELS Instruments (formerly CAEN ELS) is a leading company in the design of power supplies and state-of-the-art complete electronic systems for the Physics research world, having its main focus on dedicated solutions for the particle accelerator community and high-end industrial applications.

-  Power Supply Systems
-  Precision Current Measurements
-  Beamline Electronics Instrumentation
-  FMC and MicroTCA

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Technical Specifications

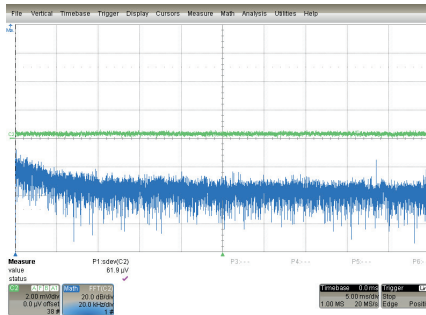
PS1215

Output Positive Voltage ($\pm 3\%$)	+15 V
Output Negative Voltage ($\pm 3\%$)	-15 V
Maximum Output Power	27 W
Maximum Output Current	+15V @ 900 mA -15V @ 900 mA
Output Ripple + Noise	0.003 % _{RMS} @ DC-1MHz 0.025 % _{PEAK-PEAK} @ DC-1 MHz
AC Line Voltage Input	90 - 260 V _{VAC}
AC Line Frequency	47 - 63 Hz
Input to Output Isolation	3 kV
Output to Earth-Case Isolation	500 V
Hold-up time	16 ms (typ.) at 115 V _{VAC}
Cooling	Natural convection
Dimensions	136.4 × 41 × 90.7 mm
Weight	600 g
Y-Cable length (CT-I and CT-V)	3m
Indicators	2 LEDs
Protections	Output short-circuit Output over-voltage
Operating Temperature Range	0°C - 50°C



PS1215V

AC-DC Power Supply and cables for Voltage-Output Current Transducers



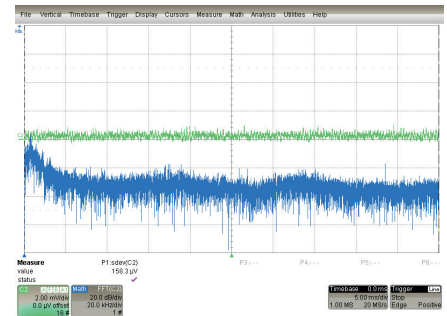
PS1215 +15V typical output noise - AC coupling - BW160kHz



PS1215I

AC-DC Power Supply and cables for Current-Output Current Transducers

PS1215 -15V typical output noise - AC coupling - BW160kHz



Ordering Code	Acronym	Description
WPS1215XAAA	PS1215	PS1215 - AC/DC Single Output - Dual Voltage $\pm 15V$ Low Noise Power Supply - 27W max - 3m cable
WPS1215IXAAA	PS1215I	PS1215 - AC/DC Single Output - Dual Voltage $\pm 15V$ Low Noise Power Supply - 27W max + Y-Cable CT-I: 3m cable with DB-9 and "banana" plugs (current output)
WPS1215VXAAA	PS1215V	PS1215 - AC/DC Single Output - Dual Voltage $\pm 15V$ Low Noise Power Supply - 27W max + Y-Cable CT-V: 3m cable with DB-9 and BNC (voltage output)