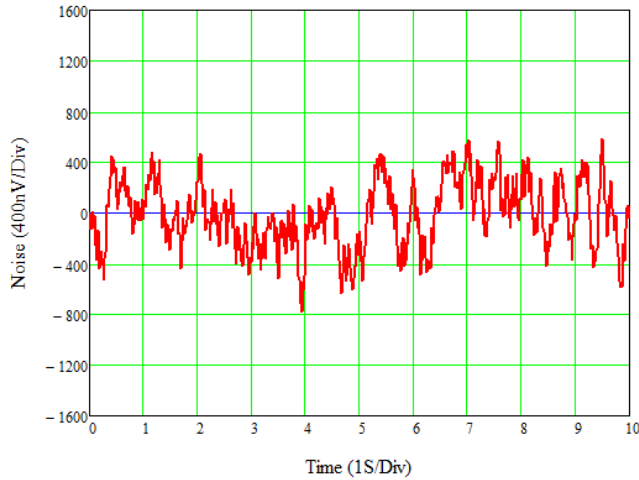
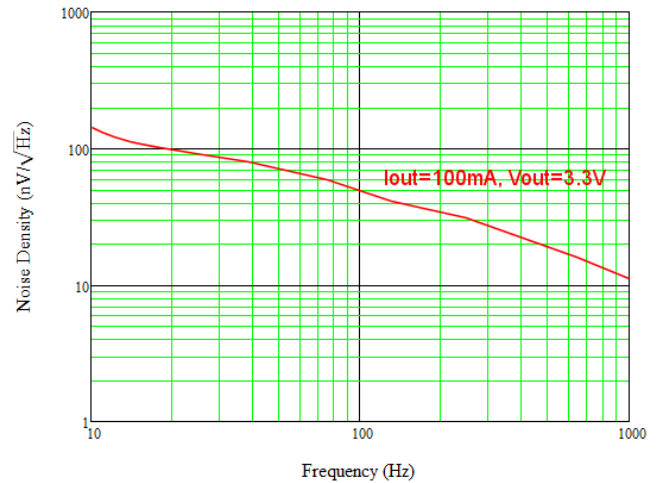




Noise (0.1Hz to 10Hz)



Noise Density



Abracon's ABPSM-ULN-A solution provides an Ultralow noise power supply source (25 nV / $\sqrt{\text{Hz}}$ @ 1kHz), with four regulated DC Outputs.

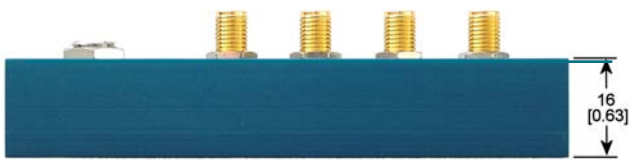
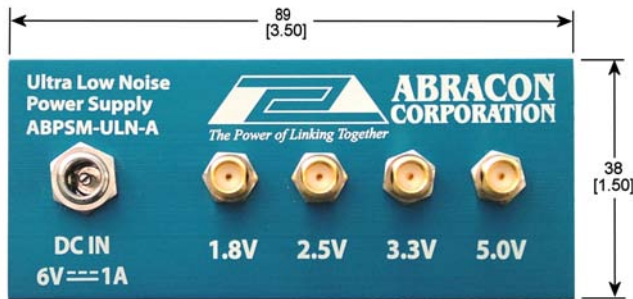
Offering 1.8V, 2.5V, 3.3V and 5.0V DC bias ports; this module is uniquely positioned to replace multiple, low noise, linear power supplies which are typically needed to bias noise sensitive circuitry.

ABPSM-ULN-A is designed to utilize a Universal low Noise AC Adapter, enabling *World-Wide functionality*, accepting 100VAC~240VAC; 50Hz and 60Hz cycles.

Coupled with state of the art low noise regulation, this Power Supply Module (PSM) provides an optimal setup to conduct noise sensitive measurements of System Critical circuitry, such as phase noise, jitter, spectral purity and S/N (Signal to Noise ratio).

Parameter	Description	Value / Units
Nominal Voltages	+1.8V, +2.5V, +3.3V, +5.0V	
Voltage Accuracy	Initial accuracy at T=25°C	< ±0.25%
	T=0 °C to T=+70 °C	< ±0.30%
Maximum Output Current	T=25 °C	200mA
Load Regulation	Δ Load = 1mA to 200mA	5mV
Output Impedance	Max. Output Impedance @ each port	0.20 Ω
Voltage Output Noise	Noise Density @100Hz	80 nV / $\sqrt{\text{Hz}}$
	Noise Density @1kHz	25 nV / $\sqrt{\text{Hz}}$
	Noise Density @10kHz	20 nV / $\sqrt{\text{Hz}}$

ABPSM-ULN-A includes:



Power Supply Module (PSM)



100VAC to 240VAC *Universal* AC-Adapter

Key Features:

- AC Adapter Input Voltage 100VAC to 240VAC; 50Hz and 60Hz cycles - *World Wide Capability*
- Four DC Output Ports, 1.8V, 2.5V 3.3V & 5.0V
- Current Sourcing Capability 120mA max each port
- Ultra low noise < 25nV/√Hz @ 1kHz offset
- Convenient, Ultra Low Noise Solution offering most common bias levels
- Portable & light weight
- Low Cost

Applications:

- Lab Grade Power Supply designed to replace bulky & noisy power supplies for everyday use
- A must have for Noise Sensitive Measurements such as, S/N ratio, Spectral Purity, Jitter, Phase Noise & Harmonic Distortion
- Ideal for testing circuits including:
 - *Audio*
 - *RF*
 - *Microwave*
 - *Medical Diagnostic*
 - *Jitter Sensitive Digital*

Designed, developed & manufactured by Abracon's Advanced Product Development Team; made in U.S.A.