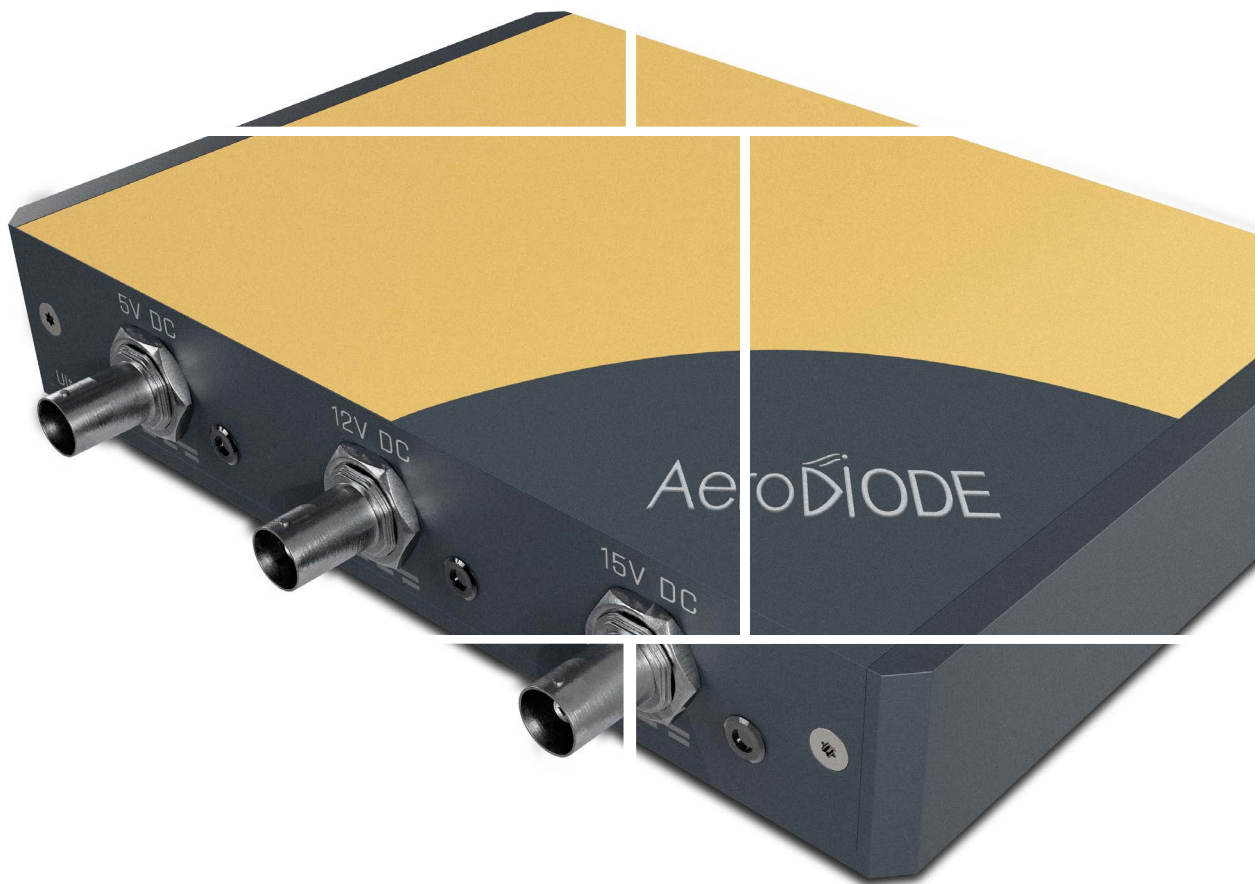


UltraPS

Ultra low noise linear Power Supply

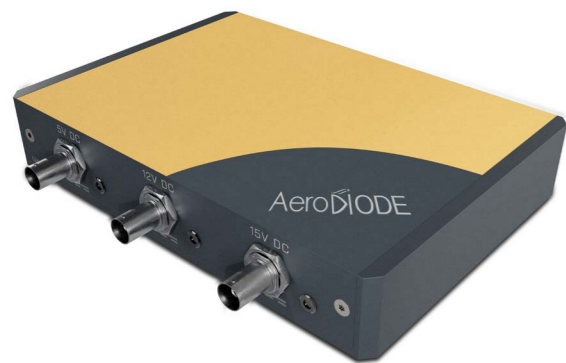


Aero  DiODE

UltraPS

Ultra low noise linear Power Supply

AeroDIODE Ultra-PS are the lowest noise level turnkey linear power supplies available today. It makes you get the best pV-range noise performances for critical components or applications such as amplifiers, oscillators, phase lock loops or active stabilization setup of key low noise laser sources.



Triple output UltraPS-3 model with 5V, 15V and 18V ultra low noise outputs. Possibility to specify a special model with special voltage outputs in the 2-18V range

These high end tunkey electronic solutions are available with either a single, double or triple voltage output. The standard stock items have respectively a 5V or a triple 5/12&15V output. It is possible to order a special model with single or multiple voltage outputs in the 2-18V Voltage range.



Single output +5V : UltraPS-1.

Key features

- Voltage noise PSD down to less than $500\text{pV}/\sqrt{\text{Hz}}$ (noise floor measurement limited)
- Residual ripple down to $5\mu\text{V rms}$ over 1Hz to 1MHz
- Voltage accuracy better than 1% for all voltages (typically better than 0.4%)
- Ultra high stability for long term use over several hours
- Bicolor LED with power limit indication
- Short circuit protection
- Output current up to 1.3A (25W total for UltraPS-3) or 8A (2V output of UltraPS-2)
- Small form factor
- The product includes it own MeanWell AC/DC power compatible with 110V/220V electrical outlets.

Technical specifications

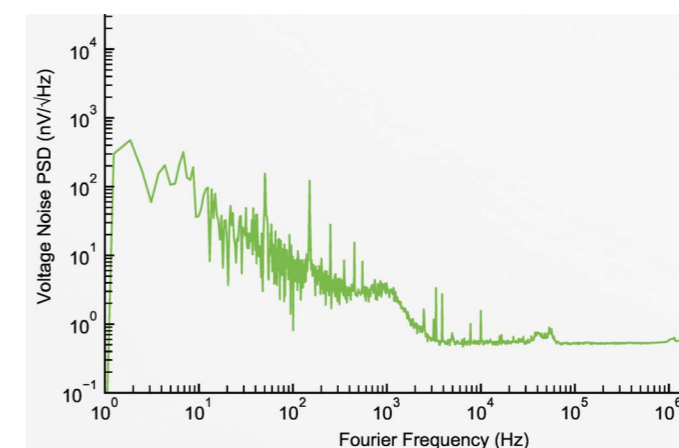


Front view : the product includes a double light led indicating when the max power is reached

Single output model. An OEM version is also available with minimum order quantities.

Rear view : the MeanWell power supply is included with the product. Possibility to connect the ground part for sharing common ground within your system

Model	UltraPS-1	UltraPS-2		UltraPS-3			Notes
Output Voltage	5V DC	2V DC	5V DC	5VDC	12VDC	15VDC	Other voltage available in the 2-18V range
Max output current	3A	8A	1 A	1.3A	1.3A	1.3A	Max total power for UltraPS-3 is 25W
Voltage accuracy (Typ/max)	0.4% / 1%						
Short circuit protection	Yes						
Voltage noise Density (down to)	$500\text{pV}/\sqrt{\text{Hz}}$						
Residual ripple (1Hz-1MHz) / (down to)	5 $\mu\text{V rms}$						
Temperature Coefficient	xppm/ $^{\circ}\text{C}$						
Supply voltage (110/220V power supply is included)	6V	18V		18V			110/220V Power supply is included
Dimensions (mm ³)	125*80*35			165*155*32			



Example of a typical voltage noise power spectral density of the 5V output. The $500\text{pV}/\sqrt{\text{Hz}}$ obtained here is limited by the measurement noise floor.



AeroDiode

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