

Viso LabPower is a combined AC power supply and power analyzer that complies with light measurements standards (IES LM-79 and CIE S 025). LabPower fully integrates with your Viso light measurement system and software, and secures a fixed-voltage, pure sine wave feed to your light source.

Advantages

- Dedicated Viso AC power supply and power analyzer
- Full integration with any Viso light measurement system
- Complies with CIE S 025/ IES LM-79 requirements
- Move it anywhere - no complex rack mounting
- Versatile output range 90-270 VAC / 50-60 Hz
- Stable output: Removes all mains voltage fluctuations
- Low harmonic distortion: Pure sine wave output
- Real-time readout on built-in display
- No resonance artefacts from advanced regulation loops
- Remote sensing feature for optimal accuracy

Get a completely steady AC feed to your light source



The built-in display provides lots of live data and live AC voltage/ current curves



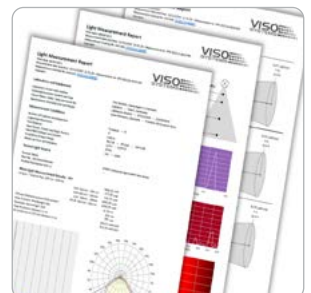
Connects to your PC with USB-C cable. All data is transferred directly to the software



Remote sensing option to avoid effects of voltage drops in cables (separate sense leads included)



Seamless integration with PDF reporting: All feed specs and results can be included in reports



SPECIFICATIONS

The LabPower is a combined AC power analyzer and power supply.

An advanced power analyzer feedback loop ascertains voltage stability throughout your test - during both warmup and light measurement.

Physical dimensions

Dimensions (L x W x H)	270 x 220 x 180 mm
Weight	8 kg

Power Supply specifications

Input voltage	90 – 260 VAC 50/60 Hz
Maximum input power	350 W

Power Output Specifications

Voltage Range	30 – 270 VAC RMS +/- 0,1%
Set AC RMS voltage tolerance	+/- 0.2V
Current Range	1.4 A RMS max. @ >140 V 2.2 A RMS max. @ <140 V
Current crest factor capability (DUT <220 V)	>10
Waveform	45 - 100 Hz Sinusoidal
RMS summation of harmonic components	<3% of fundamental frequency
Dynamic response time, typical	<25 μ s
Voltage THD*	<1.5%
Frequency	45 - 100 Hz 0.1%
Output Impedance	30-140 VAC 1.75 Ω / 140-270 VAC 7.5 Ω
Continuous Maximum Load	250 W (Max. 250 W @ 200-260 VAC/PF 0.9-1.0) (Max. 200 W @ 90-140 VAC/PF 0.9-1.0)
Test Circuit Resistance	0.1 Ω

Prerequisites for power analyzer accuracy

Device under test Voltage	30 – 270 V RMS
Device Under Test Current	< 3A RMS
Device under test Frequency Range	50/60 Hz
Device under test Max Power	250 W
Ambient Temperature	25 \pm 1.2 C

Power Analyzer Specifications

Basic Power Accuracy (50/60 Hz)	0.5%
Analyzer Frequency Range	up to 100 kHz
Calibration uncertainty, voltmeters/ammeters	<0.2%
Calibration uncertainty, power meters	<0.5%
Voltage Accuracy	0.2% of reading 0.2% of range
Current Accuracy	0.3% of reading 0.3% of range
Voltage AC peak ranges (Crest factor = 3 dB)	6V / 12V / 25V / 51V / 103V / 206V / 413V / 826V
Current AC peak ranges (Crest factor = 3 dB)	3mA / 7mA / 15mA / 30mA / 60mA / 128mA / 257mA / 515mA / 1A / 2A / 4.1A / 8.2A / 16.5A
Measurement Bandwidth	200 kHz
Sampling Rate	2 MS/s
Output curve sample rate	125 KS/s
Measurement Parameters	Voltage, current, active power, apparent power, power factor, displacement factor.
Test Circuit Resistance	0.1 Ω
Voltage internal sense parallel impedance	3 M Ω
Voltage external sense parallel impedance	3 M Ω
Remote sensing function	Included (Maximum Test circuit resistance <0,5 Ω , Maximum Test circuit capacitance <1,5 nF)

Connection

USB connection to Viso Light Inspector software