FLATLITE® SALES BULLETIN

The world's widest, thinnest, longest lightbulb™

COMPENSATING POWER SUPPLIES

Standard Line voltage (usually 120V/60Hz or 220V/50 Hz) does not usually provide enough frequency or voltage to adequately light FLAT**LITE**®. Thus, a FLAT**LITE**® Power Supply is needed to convert standard line voltage to a higher voltage and frequency (recommended is 280V/650Hz for high brightness). The power supply plugs into a standard wall outlet, and is then connected to the lamp.

While a FLAT**LITE**® lamp will never 'burn out', it will gradually become dimmer over time as it is used. 'Compensating' power supplies compensate for that dimming by automatically increasing voltage from it's initial setting as the lamp ages. This patented design extends the useful brightness life of FLAT**LITE**® lamps. Since some applications do not require high brightness, the voltage may be set anywhere lower then 280V during the installation. This will lessen the brightness, depending on how far below 280V it is set, but it will extend the useful life of the lamp even further.

Power supplies are available that power lamps as small as 100 square inches (65 cm^2) to over 85 square feet (8 M^2) of lamp area.

FLAT**LITE**® Compensating Power Supply Information:

- √ Accept Input (Mains) voltage of anywhere from 100 to 250 Volts AC, at either 50 or 60 Hz.
- √ Produce Output voltage (adjustable) of anywhere from 50 to 330 Volts AC, at 650 Hz
- √ Are UL (Underwriters Laboratories) Listed to UL48 standard
- √ Have Fused input voltage protection
- √ Electronic Open Circuit and Short Circuit and Ground Fault Interruption Protection
- √ Will accept external E-Lite Dimming and Flashing control models through 6-Pin connector
- √ These models can be built with a DC front end for transit applications upon request.

FLAT**LITE**® Compensating Power Supplies come in 3 models. Each model can power a different range of lamp sizes (see back for lamp size ranges and additional power supply information):

600N Model **2200N Model** **12K Model**

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E-LITE TECHNOLOGIES INC.

Power Supply Specs

Model	***Dimensions*** Width x Length x Height	***Weight***	***Max Power***	***Lamp Area***
600N	**3.6" x 8.3" x 3.1"** 9.2cm x 21cm x 7.9 cm	**2lb 8oz** 1.1 kg	30 watts	**100-600 in²** 645-3900 cm²
2200N-A	**3.75" x 10.5" x 3.25"** 9.5cm x 26.7cm x 8.3cm	**3lb 12 oz** 1.7 kg	90 watts	**600-1800 in²** 3900-11600 cm²
2200N-B			100 watts	**1800-2600 in²** 11600-16800 cm²
12KN-A	**9" x 13.4" x 4"** 23.4cm x 34cm x 10.2cm	**7lb 5oz** 3.3 kg	155 watts	**2600-3500 in²** 16800-22600 cm²
12KN-B		**9lb 13oz** 4.4 kg	240 watts	**3100-5300 in²** 20000-34200 cm²
12KN-C		**12lb 5oz** 5.6 kg	390 watts	**4800-8000 in²** 30900-51600 cm²
12KN-D		**14lb 13oz** 6.7kg	625 watts	**7800-12500 in²** 50300-80600 cm²

Notes:

Input Voltage

Internal jumpers are used to select Input voltage (110V or 240V) for 600N and 2200N Models. 12K Models automatically adjust to input voltage.

Output ranges

600N - this model has 4 possible internal jumper configurations, one of which must be utilized prior to powering a lamp. Each configuration powers a different range of lamp area. These ranges are 100-150, 151-275, 276-400,401-600 (values in square inches).

2200N-A - this model has 3 different ways to attach its internal choke. Each method powers a different range of lamp area. These ranges are 600-1000, 1000-1500, 1500-1800 (values in square inches).

2200N-B - this model will power all lamps from 1800-2600 square inches with no internal modifications.

12KN Models - these models will power all lamps in the ranges given above, according to version (A, B, C or D). The different model letters account only for the number of chokes each has. 12 KN-A has one choke, 12KN-B has 2, and so on.

All units are equipped to accept a standard female "U-Ground" input power supply cord which can be sourced in the country of use. A 110VAC US standard cord is included with US shipments and will be provided on request for international orders.