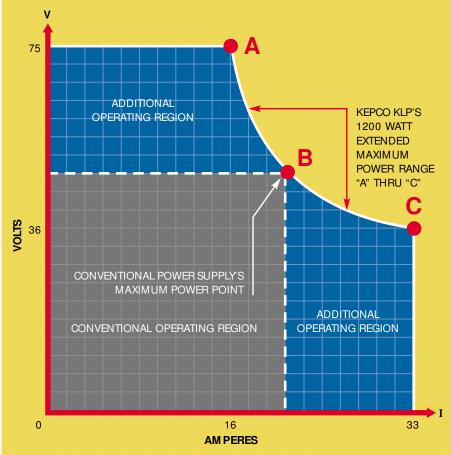
KEPCO IS NOT JUST AHEAD OF THE CURVE, WE'VE FORMED A WHOLE NEW ONE.

Introducing Hyperbolic Power.™ A new technology exclusively developed by Kepco.

The KLP is an entirely new laboratory grade power supply in which the voltage/current limits are automatically recalculated, forming a constant-power hyperbolic-shaped boundary between the voltage and current modes. This curve, which replaces the single max-power operating point of conventional power supplies, provides the user with a greatly expanded choice of maximum power volt-ampere combinations as illustrated in the diagram by points A to B to C. The constant-power limit of the KLP is 1200 watts. The KLP saves money and space by reducing the number of power supplies required.

For example: the single model KLP 75-33-1200 operates as a 0-75V/16A power supply or a 0-36V/33A power supply and all 1200W volt-ampere combinations in between.



KLP REPLACES THE NEED FOR MULTIPLE POWER SUPPLIES
BY EXPANDING THE OPERATING REGION. THE BREAKTHROUGH OF
A HYPERBOLIC POWER LIMIT DELIVERS A FULL 1200 WATTS
OVER AN EXPANDED OPERATING RANGE, NOT JUST A SINGLE POINT.



The KLP features:

- Switch mode topology for cool, efficient operation
- Built-in GPIB, RS232 and isolated analog programming at no extra cost
- 1U panel height at 1200 watts
- Front to back air flow allows full power operation without spacers between supplies
- Three models: KLP 75-33-1200, KLP 150-16-1200, KLP 300-8-1200
- Wide-range a-c input, 88-265V a-c with PFC

THE POWER SUPP SINCE 1946

MODEL KLP 75-33-1200 0-75V@16A TO 0-36V@33A

To receive a free demonstration of the money-saving, space-saving power of the new Kepco KLP, call (718) 461-7000 or visit www.kepcopower.com/klp.htm.

AN ISO 9001 COMPANY



SEE REVERSE SIDE FOR KLP SPECIFICATIONS



| KLP MODEL TABLE | | | | | | | |
|-----------------|--|--|--|--|----------|--------------------|------------|
| MODEL | RATED VOLTAGE RANGE ⁽¹⁾ | MAXIMUM CURRENT FOR RATED VOLTAGE | RATED CURRENT RANGE ⁽¹⁾ | MAXIMUM VOLTAGE FOR RATED CURRENT | RIPPLE A | ND NOISE p-p(2) | EFFICIENCY |
| KLP 75-33-1200 | 0-75V | 16A | 0-33.33A | 36V | 10 mV | 125 mV | 84% |
| KLP 150-16-1200 | 0-150V | 8A | 0-16A | 75V | 10 mV | 125 mV | 86% |
| KLP 300-8-1200 | 0-300V | 4A | 0-8A | 150V | 20 mV | 300 mV | 87% |

⁽¹⁾ The maximum current and voltage are constrained by the 1200 watt power limitation.

| (0) | Description delication | 00 1411- | 40 4000/ | 11 |
|-----|------------------------|----------|----------|------|
| (2) | Bandwidth: | 20 MHZ. | 10-100% | ioad |

| KLP INPUT CHARACTERISTICS | | | | |
|---------------------------|------------------|--------------------|------------------------|--|
| SPECIFICATIONS | | RATING/DESCRIPTION | CONDITION | |
| a-c Voltage | nominal | 100-240V a-c | Single phase | |
| | range | 88-265V a-c | Wide range | |
| Frequency | nominal range | 45-66 Hz | Single phase | |
| d-c Voltage | range | 125-350V d-c | No regulatory approval | |
| Power Factor | typical | 0.99 | Meets EN 61000-3-2 | |
| Inrush Current | 264V a-c | 40A | Peak | |
| | 132V a-c | 20A | Peak | |
| Input Prote | ction | Circuit Breaker | 2-line | |
| Low Source Protection | | Self Protected | No fixed limits | |
| Output Hold Up | typical | 10 milliseconds | Ride through | |

An a-c line cord is not supplied with the KLP. A 6 ft., 20A US line cord (p/n 118-0776) is available as an option. For other line cord options, please consult the factory.



Rear view of Model KLP showing the built-in GPIB, RS 232 and isolated analog programming controls.

To the right are 5 euro-block connectors providing remote metering and sensing outputs plus the current-share connection. The DIP switch adjacent to the GPIB connector provides for the selection of isolated analog programming by either voltage or resistance. The default is 0-10V or 0-10,000 ohms, but the maximum levels can be set in the calibration routine to match whatever a user has available. (0-5V, 0-3.3V etc.) The KLP has SELV analog programming referenced to chassis ground (same as the digital programming input). One of the DIP switches provides for hard lockout of the front panel controls for use when remote control is employed.



| KLP OUTPUT CHARACTERISTICS | | | | |
|-----------------------------|------------|---|--|--|
| SPECIFICATIO | NS | RATING/DESCRIPTION CONDITION | | |
| Stabilizer Type | | CV/CC with hyperbolic power limit | Voltage/Current | |
| Adjustment Range | voltage | 0-100% of rated voltage | No minimum load required | |
| | current | 0-100% of rated current | No minimum load required | |
| Source Effect | voltage | 0.01% E _{max} | Over full source range | |
| | current | 0.01% I _{max} | Over full source range | |
| Load Effect | voltage | 0.02% E _{max} | Over full load | |
| | current(1) | 0.05% I _{max} | current range | |
| Output Power | | Full 1200 watts to +50°C | | |
| Temperature | voltage | 0.2%/ºC | 0-50°C | |
| Effect | current | 0.2%/ºC | 0-50-0 | |
| Time Effect | voltage | 0.05%/24hr | After 30 minute | |
| (drift) | current | 0.1%/24hr | warmup | |
| Error Sensing | | 0.25 volts per wire | Above rated output. Either output terminal to chassis. | |
| Isolation Voltage | | 600V d-c or peak | | |
| Transient Recovery for | excursion | 1% E _{rated} | 50% load step 2A/μsec max | |
| Load Change | recovery | 0.5 msec | Return to 0.1% of setting | |
| Turnon/turnoff overshoot | | Same as load transient response limits | | |
| Overvoltage Protection | voltage | Programmable | Latched ⁽²⁾ | |
| Overcurrent Protection | current | Programmable | Latched ⁽²⁾ | |
| Over Temperature Protection | | Shutdown | | |
| Parallel Operatio | | Active load sharing within 5% of I ₀ rated | | |

(1) After settling effect. (2) Requires the a-c input to be recycled for restart.

| KLP PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS | | | | | |
|--|-----------|------------------------|--------------------------------|--|--|
| SPECIFICATIONS | | RATING/DESCRIPTION | CONDITION | | |
| Dimensions | English | 1.75'H x 19"W x 20"D | Depth excluding connectors and | | |
| | metric | 44.45 x 482.6 x 508 mm | terminal blocks | | |
| Weight English | | 14 lbs max | | | |
| | metric | 6.4kg max | | | |
| Temperature | operating | -20 to +50°C | Rated load | | |
| | storage | -40 to +85°C | rialed load | | |
| Cooling | | internal d-c fans | Exhaust to the rear | | |

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