# **KEPCO SERIES KLP 2.4kW**



- 2400W Output Power
- 90-264V a-c Input
- 2U high



Using high-frequency switch-mode topology for high efficiency and small size, the KLP provides 2400 watts of well-regulated, controllable d-c power in a **2U** (3.47 inch high) by 19 inch rack-mountable package. KLP replaces the need for multiple power supplies by expanding the operating region. The breakthrough of a hyperbolic power limit delivers a full 2400 Watts over an expanded operating range, not just the conventional rectangular operating area.

#### www.kepcopower.com/klpmod2.htm

## **KLP MODEL TABLE**

MODEL <sup>(3)</sup>	RATED VOLTAGE RANGE (1)	MAXIMUM CURRENT FOR RATED VOLTAGE	MINIMUM PROGRAMMABLE CURRENT	RATED CURRENT RANGE (1)	MAXIMUM VOLTAGE FOR RATED CURRENT	RIPPLE AND NOISE <sup>(2)</sup> p-p	EFFICIENCY @ 115V a-c
KLP 36-120	0-36V	66A@36V	0.8A	0-60A	20V@120A	60 mV	83%
KLP 75-66	0-75V	33A@75V	0.4A	0-33.3A	36V@66.6A	60 mV	84%
KLP 150-32	0-150V	16A@150V	0.2A	0-16A	20V@32A	125 mV	86%
KLP 300-16	0-300V	8A@300V	0.1A	0-8A	150V@16A	150 mV	87%
KLP 600-8	0-600V	4A@600V	0.05A	0-4A	300V@8A	150 mV	88%
KLP 1000-4	0-1000V	2.4A@1000V	0.05A	0-4A	600V@4A	150 mV	88%

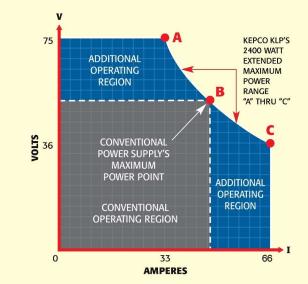
(1) The maximum current and voltage are constrained by the 2400W power limitiation.

(2) Bandwidth: 20MHz; low frequency ripple may be higher at loads less than 30 Watts.

(3) Standard models (no suffix) include built-in GPIB and RS-232 interfaces.

E -Series models (E suffix) include built-in GPIB and LAN interfaces.





#### **KLP 2.4kW PHYSICAL SPECIFICATIONS**

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SPECIFICATION		RATING/DESCRIPTION	CONDITION	
Weight	English	30 lbs	Shipping 40 lbs	
	Metric	13.64 Kg	Shipping 18.14 kg	
Dimensions W x H x D	English	19" x 3.47" x 20.78"	Depth excluding connectors and terminal blocks	
WXHXD	Metric	482.6mm x 88.14mm x 527.8mm		
Source Power Connection	r	Field-Wiring Euroblocks	250V a-c, 32A (VDE) 125V a-c, 40A (UL)	
Load Connections	36V model	Nickel-plated copper busbar with integral threaded stud (1/4-20-1/2in.)	Provision for safety covers	
	75-1000V models	Shock-safe Euroblock, single conductor size: 20-10 AWG 0,5-5,0 mm <sup>2</sup>		
Analog Programming	Port	15 pin D-sub		
Digital Programming	Primary	Standard GPIB connector	IEEE 488.2 (GPIB)	
Ports S	econdary	9 pin D-sub	RS 232 (standard models only)	
S	econdary	RJ45	LAN (E-Series models only)	
Feedback/ Control Input		5 position low profile Euroblocks		

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#### FEATURES:

**KLP:** Provides 2400W output power over a hyperbolioc power envelope, resulting in full output power availability over a range of 20V, 120A to 1,000V, 2.4A

Switch mode topology for cool, efficient operation

GPIB and isolated analog programming included on all models

Standard models have an RS-232 interface

E-Series models replace the RS-232 interface with an Ethernet (RJ-45) connector supporting LAN (LXI certified for KLP)

2U panel height at 2400 watts

Front to back air flow allows fuill power operation without spacers between supplies

Operates over universal a-c mains voltage range of 90 - 264V a-c with PFC

Stud-style output power terninals for LV model (36V) and Euroblock output power terminals for HV models (75V, 150V, 300V 600V and 1,000V)

## MARKETS AND APPLICATIONS

- Electric Vehicles and Components
- Battery Charging and Testing
- Aerospace and Satellite Test
- Telecom and IT Industry
- Automated Test Equipment
- Factory Automation
- QC Testing
- Burn-in
- Solar
- Water Purification
- Thermal Process Control
- Chemical Processing
- Semiconductor Manufacturing
- · Electroplating, Sputtering and Coating
- New Energy R&D



### **KLP 2.4kW INPUT SPECIFICATIONS**

SPECIFICATION		<b>RATING/DESCRIPTION</b>	CONDITION	
a-c Voltage	Nominal	100-240V a-c	Single phase	
	Range	90-264V a-c	Wide range	
Input Frequency	Nominal Range	50-60 Hz		
	Maximum	45-440 Hz	Increased leakage above 66 Hz	
Power Factor (PF)	Typical	0.99	Meets EN 61000-3-2	
Maximum Input Current	120V a-c	26A rms	Rated load (2400W)	
	240V a-c	13A rms	Rated load (2400W)	
	230V a-c	12A rms	Rated load (2400W)	
Inrush Current	265V a-c	80A	Peak	
	132V a-c	40A	Peak	
Input Fusing		Circuit breaker	2-line	
Low a-c Protection		87V a-c self protected	User-selectable recovery (1)	
Output Holdup	Typical	10 milliseconds	Ride through	
Leakage Current	115V a-c, 60 Hz	2.4mA max		
	230V a-c, 50 Hz	4.6mA max		

(1) Either PROTECTED (output disabled and locked until source power recycled) or SAFE (output disabled with unit programmed to last setting; power recycling not needed for recovery) or AUTO (when fault clears, unit automatically recovers to programming setpoints and output state (enabled/disabled) as before fault was detected.

NOTE: Contact Kepco Applications Engineering for d-c input.