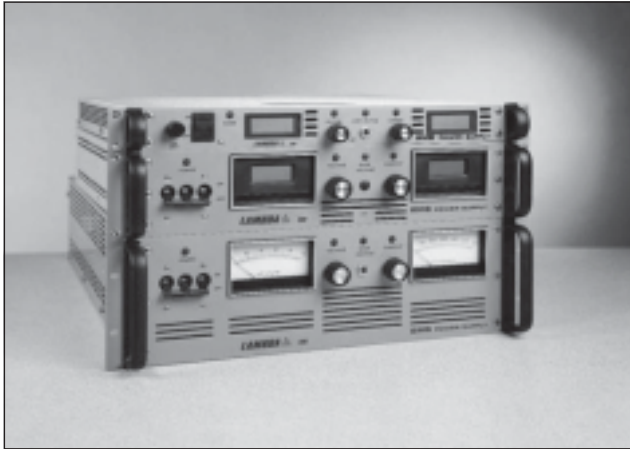


# ESS SERIES

## Laboratory Power Supplies: 10 ~ 15KW



### Features

- Three phase input (various options)
- 10Kw and 15Kw output power
- Output voltage options from 7.5 ~ 600 VDC
- Front panel adjustable OVP
- Short circuit protection
- Thermal protection includes LED indicators
- Pulse by pulse current limit for fast recovery
- Series or parallel operation of units
- Transient protection
- Phase loss detection (neutral loss detection is included above 208 VAC input models)
- Soft start
- Power factor corrected 0.9
- Voltage and current programming monitoring are 0-5V standard (0-10V optional)
- UL and CE approval on some models
- CV and CC with automatic crossover with LED indicators
- Choice of analog or digital meters
- 19in x 5U rack mounting
- Examples:
  - ESS 20-500-2-D
  - ESS 10-1000-10-D-CE
  - ESS 50-200-2-LB-TC-RSTL

### Specifications

<b>INPUT VOLTAGE:</b> (3 phase)	400 VAC (360 - 440) 415 VAC (375 - 452) <ul style="list-style-type: none"><li>• All inputs are 5 wire systems, consult manual.</li><li>• Other inputs on request</li></ul>
<b>EFFICIENCY:</b>	Model dependent 85 - 91%
<b>POWER:</b>	10 ~ 15Kw models
<b>OUTPUT VOLTAGE:</b>	7.5V ~ 600V options
<b>POWER FACTOR:</b>	0.9
<b>REGULATION:</b>	<b>CV Mode:</b> $\pm 0.1\%$ for 100% load change <b>CC Mode:</b> $\pm 0.1\%$ for 100% Vout change
<b>TRANSIENT RESPONSE:</b>	For a 30% load step, less than 650 micro secs for units up to 20V. For units above 20V, transient response is increased by a factor of V max/20
<b>STABILITY:</b>	0.05% over 8 hours under constant input and load
<b>OPERATING TEMP:</b>	0°C to 50°C. Derate 4%/°C from 50°-60°C
<b>REMOTE START:</b>	All modes are capable of being remotely started or stopped by means of an external AC or DC voltage source
<b>SWITCHING FREQUENCY:</b>	240 - 260Hz
<b>REMOTE SENSE:</b>	Yes
<b>REMOTE ANALOG PROGRAMMING:</b>	Units will respond to front panel control or external control signals. This control signal may be resistance, current or voltage
<b>DIGITAL PROGRAMMING:</b> (Optional)	The RSTL allows user to programme via a computer. The RSTL contains both IEEE488 and RS232 capability. Programming signals are software selectable and have an output "shutoff" flag
<b>PROTECTION:</b>	Overvoltage protection adjustable from front panel as standard. This will short (crow bar) the power supply output to protect the load. Short circuit protection with automatic recovery.
<b>DIMENSIONS:</b>	19in rack mounting. Height: 8.718 in (5U) Case depth behind front panel excluding output terminals - 560mm
<b>WEIGHT:</b>	All models: 50kg

