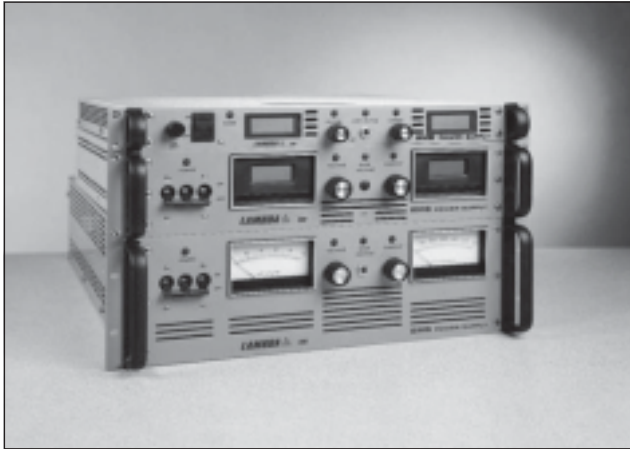


ESS SERIES



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

INPUT VOLTAGE: (3 phase)	400 VAC (360 - 440) 415 VAC (375 - 452) <ul style="list-style-type: none">• All inputs are 5 wire systems, consult manual.• Other inputs on request
EFFICIENCY:	Model dependent 85 - 91%
POWER:	10 ~ 15Kw models
OUTPUT VOLTAGE:	7.5V ~ 600V options
POWER FACTOR:	0.9
REGULATION:	CV Mode: $\pm 0.1\%$ for 100% load change CC Mode: $\pm 0.1\%$ for 100% Vout change
TRANSIENT RESPONSE:	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
STABILITY:	0.05% over 8 hours under constant input and load
OPERATING TEMP:	0°C to 50°C. Derate 4%/°C from 50°-60°C
REMOTE START:	All modes are capable of being remotely started or stopped by means of an external AC or DC voltage source
SWITCHING FREQUENCY:	240 - 260Hz
REMOTE SENSE:	Yes
REMOTE ANALOG PROGRAMMING:	Units will respond to front panel control or external control signals. This control signal may be resistance, current or voltage
DIGITAL PROGRAMMING: (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
PROTECTION:	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.
DIMENSIONS:	19in rack mounting. Height: 8.718 in (5U) Case depth behind front panel excluding output terminals - 560mm
WEIGHT:	All models: 50kg

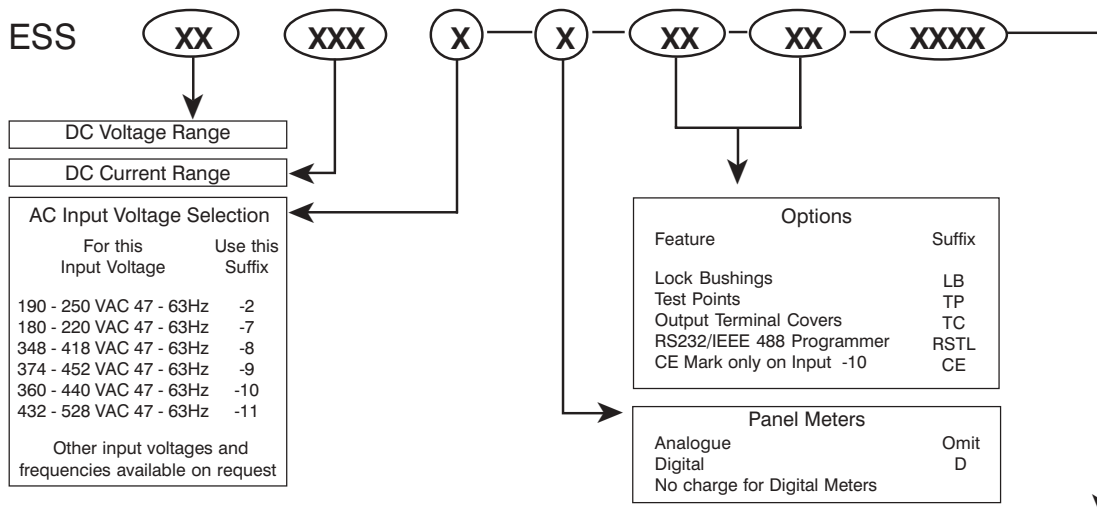
ESS SERIES



Laboratory Power Supplies: 10 ~ 15KW

Model	Output		Power Kw
	V	A	
ESS 7.5 - 100	0 - 7.5V	1000A	7.5Kw
ESS 10 - 1000	0 - 10V	1000A	10Kw
ESS 12.5 - 800	0 - 12V	800A	9.6Kw
ESS 20 - 500	0 - 20V	500A	10Kw
ESS 25 - 400	0 - 25V	400A	10Kw
ESS 30 - 333	0 - 30V	333A	10Kw
ESS 40 - 250	0 - 40V	250A	10Kw
ESS 50 - 200	0 - 50V	200A	10Kw
ESS 60 - 165	0 - 60V	165A	10Kw
ESS 80 - 125	0 - 80V	125A	10Kw
ESS 100 - 100	0 - 100V	100A	10Kw
ESS 125 - 80	0 - 125V	80A	10Kw
ESS 150 - 66	0 - 150V	66A	10Kw
ESS 160 - 62	0 - 160V	62A	10Kw
ESS 180 - 60	0 - 180V	60A	10Kw
ESS 200 - 50	0 - 200V	50A	10Kw
ESS 220 - 46	0 - 220V	46A	10Kw
ESS 250 - 40	0 - 250V	40A	10Kw
ESS 300 - 33	0 - 300V	33A	10Kw
ESS 400 - 25	0 - 400V	25A	10Kw
ESS 500 - 20	0 - 500V	20A	10Kw
ESS 600 - 16	0 - 600V	16A	10Kw

Model	Output		Power Kw
	V	A	
ESS 10 - 1400	0 - 10V	1400A	14.0Kw
ESS 20 - 750	0 - 20V	750A	15Kw
ESS 30 - 500	0 - 30V	500A	115Kw
ESS 40 - 375	0 - 40V	375A	15Kw
ESS 50 - 300	0 - 50V	300A	15Kw
ESS 60 - 250	0 - 60V	250A	15Kw
ESS 80 - 185	0 - 80V	185A	15Kw
ESS 100 - 150	0 - 100V	150A	15Kw
ESS 125 - 120	0 - 125V	120A	15Kw
ESS 150 - 100	0 - 150V	100A	15Kw
ESS 160 - 93	0 - 160V	93A	15Kw
ESS 180 - 95	0 - 180V	95A	15Kw
ESS 200 - 75	0 - 200V	75A	15Kw
ESS 250 - 60	0 - 250V	60A	15Kw
ESS 300 - 50	0 - 300V	50A	15Kw
ESS 400 - 37	0 - 400V	37A	15Kw
ESS 500 - 30	0 - 500V	30A	15Kw
ESS 600 - 25	0 - 600V	25A	15Kw



Notes:

- Input voltages of 380 VAC and above require 5-Wire configuration. Consult office for 4-Wire to 5-Wire conversion transformers.
For single power supply: 28-004-952
For up to three: 28-004-890

Special Programming Options				
Programming		Monitoring		Suffix
Voltage Channel	Current Channel	Voltage Channel	Current Channel	
0 - 5V	0 - 5V	0 - 5V	0 - 5V	None required
0 - 10V	0 - 10V	0 - 10V	0 - 10V	-891
0 - 10V	0 - 10V	0 - 10V	0 - 10V	-806