

ELP/SL DC Loads

100 - 800 W



Picture shows a 400_800_1000_3000 Watt Load

OVERVIEW

- Extremely flexible due modular assembly
- Constant current and resistance mode
- Constant voltage / power mode (option)
- Adjustable ramp-up time and pulse load mode (option DYN)
- Pre-selection of all values
- Digital display show all system parameter
- Interface IEEE 488 and RS 232, 12 Bit
- Analogue Interface 0-5 (10) VDC to set and read out (isolated versions available)
- Available also as ATE Version
- Special versions on request

TYPES

Type	Power W	Voltage V	Current C/A	Dimensions
ELP/SL100/C...	100	1-60	C 2/5/10/15	112 x 222 x 360mm
ELP/SL101/C...	100	1-100	C 1/2/	112 x 222 x 360mm
ELP/SL102/C...	100	1-200	C 1/2	112 x 222 x 360mm
ELP/SL104/C...	100	1-400	C 1	112 x 222 x 360mm
ELP/SL200/C...	200	1-60	C 5/10/15/20/25/30	112 x 222 x 360mm
ELP/SL201/C...	200	1-100	C 2/5/10	112 x 222 x 360mm
ELP/SL202/C...	200	1-200	C 1/2/5	112 x 222 x 360mm
ELP/SL204/C...	200	1-400	C 1	112 x 222 x 360mm
ELP/SL400/C...	400	1-60	C 10/15/20/25/30/35/40/50/60	112 x 222 x 360mm
ELP/SL401/C...	400	1-100	C 5/ 0/15/20/25/30/35/40/45	112 x 222 x 360mm
ELP/SL402/C...	400	1-200	C 2/5/10/15/20/25	112 x 222 x 360mm
ELP/SL404/C...	400	1-400	C 1/2	112 x 222 x 360mm
ELP/SL800/C...	800	1-60	C 15/20/25/30/3/40/50/60/100	224 x 222 x 360mm
ELP/SL801/C...	800	1-100	C 10/15/20/25/30/35/40/45/50	224 x 222 x 360mm
ELP/SL802/C...	800	1-200	C 5/10/15/20	224 x 222 x 360mm
ELP/SL804/C...	800	1-400	C 2/5/10	224 x 222 x 360mm

Other versions on request

DESCRIPTION

The modular construction of the ELP/SLM series of Electronic Load offers the advantage for custom solutions with different voltages, currents and power specifications. For extra safety and comfort the current and resistance values can be preset via 10 turn pot while in stand by mode before applying to UUT. The preset values can be monitored on two 3 1/2 digit displays for voltage, current and resistance measurement and a single push button operation will activate the output. Extensive safety features include: over power, over current, over voltage, over temperature and reverse polarity all of which are indicated by LED's. All control and measurement functions are possible through the optional analogue and digital interfaces.

OPTION DYN-...

Beside the standard constant current and resistance modes this option provides constant voltage and power. A further additional feature is the adjustable current rise time. With the build in generator the following functions can be used in CC mode: triangle, square wave, sine wave, adjustable PWM 10-90% (square wave), Frequency range: 0.1-2.000Hz

OPTIONS

Suffix	Description	Remarks
/DYN-L	Dynamic mode via the front panel controls	100-400 W size: 224x222x360 mm
/DYN-B	Dynamic mode via the optional RS232 / IEEE488 interfaces	
/DYN-LB	Dynamic mode via both the interface and front panel	100-400 W size: 224x222x360 mm
/0V	Build in PSU to run full load from zero volts	
/OR	Power relay for true short circuit	
/ATE	No front panel control or display	
/6U	21 HP x 6 U Eurocassette	
/TG	Handle	
/AF	Adjustable Foot	
/10POT	Potentiometer with scale	
/ECT	19" x 6 U Unit trace	
/ECS6	19" x 6 U rack for 4 euro cassettes	
/EP21	Blank plate 6 U x 21 HP, grey	
/AI5	Analogue interface 0 – 5 VDC	
/AI10	Analogue interface 0 – 10 VDC	
/ATI5	Analogue interface galvanic isolated 0 – 5 VDC	
/ATI10	Analogue interface galvanic isolated 0 – 10 VDC	
LT	IEEE 488 interface, listener and talker	
LTRS232	RS 232 interface, listener and talker	
LTRS485	RS 485 interface, listener and talker	
LT+LTRS232	IEEE 488.2 & RS 232, listener and talker	
LT+LTRS485	IEEE 488.2 & RS 485, listener and talker	

TECHNICAL DATA

Input voltage	115/230VAC +/-15%
Input Frequency	47-63Hz
Isolation I/P to O/P	3000 VAC
Isolation class	1
Safety	EN 60950
Emission	EN 61000-6-3
Immunity	EN 61000-6-1
Current rise	>0.5A/ μ s
Regulation Voltage mode	<0.4%
Regulation Current mode	<0.4%
Regulation Power mode	<2%
Regulation Resistive mode	<2%
Response time	typ. <100 μ s
Voltage monitor	<0.4%
Current monitor	<0.4%
Display	3.5 digits for V and C
Protection	OC / OV / OT / OP
Interface analogue	0-5V (10V see options)
Interface analogue isolated	0-5V (10V see options)
Interface RS 232	see options 12 Bit
Interface IEEE 488	see options 12 Bit
Operating temperature	0-50°C
Operating Humidity	0-90% (non condensing)
Power derating 50-70°C	-2%/°C
Cooling 100-800W	internal forced air front to back
Cooling 1 – 50 kW	internal forced air back to back
Storage temperature	-45 to + 85°C
Storage humidity	0-95% (non condensing)
Vibration	10-55Hz / 1min/2G XYZ
Shock	Less than 20 G