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ELP-SL

DC Electronic Load

Description

The ELP-SL is a compact range of bench top Electronic Loads with power ranges between 100W and 800W. Constant current and constant resistance operating modes are provided as standard. The unit's test parameters can be preset and read from the display or interface. The dynamic option allows constant voltage and constant power operation in addition to the standard modes. The dynamic control permits the current rise time to be varied in seven steps. During CC operation the built in generators allow the user to choose between square, triangular and sine wave. The pulse width modulation can be adjusted from 10% to 90% and the frequency can be varied from 0.1Hz to 2kHz. For IEEE 488.2 operation LabVIEW drivers are available for this range.



- Optional Analogue & Computer Interfaces
- CV and CP Modes with Dynamic Option
- Constant Current & Resistance Modes
- Wide Variety of Current Limits Available
- Voltage Range up to 400Vdc

Case Sizes (WxHxD)

100W.....112x222x360mm
 200W.....112x222x360mm
 400W.....112x222x360mm
 800W.....224x222x360mm

(all case sizes increase to 224mm wide with dynamic option)

Selection Table

Part Number	Power	Voltage	Current Limit Chart (Replace Cxx in the part number with your chosen current limit)													
			C1	C2	C5	C10	C15	C20	C25	C30	C35	C40	C45	C50	C60	C100
ELP-SL 100-Cxx	100W	1-60Vdc		■	■	■	■									
ELP-SL 101-Cxx	100W	1-100Vdc		■	■											
ELP-SL 102-Cxx	100W	1-200Vdc	■	■												
ELP-SL 104-Cxx	100W	1-400Vdc	■													
ELP-SL 200-Cxx	200W	1-60Vdc			■	■	■	■	■	■						
ELP-SL 201-Cxx	200W	1-100Vdc		■	■	■										
ELP-SL 202-Cxx	200W	1-200Vdc	■	■	■											
ELP-SL 204-Cxx	200W	1-400Vdc	■													
ELP-SL 400-Cxx	400W	1-60Vdc				■	■	■	■	■	■	■	■	■	■	■
ELP-SL 401-Cxx	400W	1-100Vdc				■	■	■	■	■	■	■	■	■		
ELP-SL 402-Cxx	400W	1-200Vdc		■	■	■	■	■	■							
ELP-SL 404-Cxx	400W	1-400Vdc	■	■												
ELP-SL 800-Cxx	800W	1-60Vdc					■	■	■	■	■	■	■	■	■	■
ELP-SL 801-Cxx	800W	1-100Vdc					■	■	■	■	■	■	■	■	■	
ELP-SL 802-Cxx	800W	1-200Vdc		■	■	■	■									
ELP-SL 804-Cxx	800W	1-400Vdc	■	■	■											

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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Options Table

Code	Description
/ATE.....	No front panel control or display. Analogue Interface provided as standard
/AI-5.....	0-5V Analogue Interface for all control and measurement functions
/AI-10.....	0-10V Analogue Interface for all control and measurement functions
/ATI-5.....	Isolated 0-5V Analogue Interface for all control and measurement functions
/ATI-10.....	Isolated 0-10V Analogue Interface for all control and measurement functions
/LT.....	IEEE 488.2 Interface with listener and talker functions
/LTRS232.....	RS232 Interface with listener and talker functions
/LTRS485.....	RS485 Interface with listener and talker functions
/LT+LTRS232.....	IEEE 488.2 and RS232 Interfaces with listener and talker functionality
/LT+LTRS485.....	IEEE 488.2 and RS485 Interfaces with listener and talker functionality
/CAN.....	CAN Interface with listener and talker functions
/USB.....	USB Interface with listener and talker functions
/ETH.....	Ethernet interface with listener and talker functions over a LAN
/CV.....	Constant voltage operation in addition to CC & CR modes
/CP.....	Constant power operation in addition to CC & CR modes
/Dyn-L.....	Dynamic functions operable via the front panel with /CV & /CP operation
/Dyn-B.....	Dynamic function operable via the optional computer interface(s) with /CV & /CP operation
/Dyn-LB.....	Dynamic functions operable via both front panel and BUS with /CV & /CP operation
/OV.....	Built in power supply to run full load from zero volts
/OR.....	Built in power relay for true short circuit
/6U.....	Unit built as eurocassette
/TG.....	Carrying handle
/AF.....	Adjustable foot
/10POT.....	Locking potentiometer with scale
/ECT.....	19 x 6U frame for up to 4 desktop units
/ECS6.....	19 x 6U rack for up to 4 eurocassettes
/EP21.....	6U x 21HP gray blanking plate
/EP42.....	6U x 42HP gray blanking plate

Technical Data

Input voltage.....	115/230VAC \pm 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 I
Protection.....	OC / OV / OT / OP
Analogue interface.....	0-5V (10V)
Analogue isolated interface.....	0-5V (10V)
Interface RS232/RS485/USB.....	12 Bit
Interface IEEE488.2/CAN.....	12 Bit
Operating temperature.....	0-50 °C
Operating humidity.....	0-90% (non condensing)
Power derating 50-70 °C.....	-2%/°C
Cooling.....	internal forced air front 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

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.