

Product Datasheet - Technical Specifications



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Your contact

Technical and commercial sales, price information,
quotations, demo/test equipment, consulting:

Tel.: **+49 - 81 41 - 52 71-0**

FAX: **+49 - 81 41 - 52 71-129**

E-Mail: sales@meilhaus.com

Downloads:

www.meilhaus.com/en/infos/download.htm

Meilhaus Electronic GmbH | Tel. **+49 - 81 41 - 52 71-0**
Am Sonnenlicht 2 | Fax **+49 - 81 41 - 52 71-129**
82239 Alling/Germany | E-Mail sales@meilhaus.com

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ELP/DCM98 series programmable DC electronic load

200 kW load



FEATURES

- Six high speed operation modes: CC,CR,CV,CW,CC+CV,CR+CV
- High-luminance VFD screen with 2 lines & 4 channels display channels
- Battery testing and short-circuit function
- Available of dynamic testing and rising edge and falling edge setting
- External current waveform monitor terminal
- Power-on-self-test, software calibration and standard rack mount
- Over current, over voltage, over power, over heat, reversed protection
- 1000/1200 V on request polarity
- Soft start time setting, carrying the power supplier according to the voltage value set
- Supporting external trigger input and output
- Supporting remote voltage compensation and multidata storage
- Communication mode: GPIB/RS232/RS485/USB (Option)
- Customer specific models on request

Model		ELP/DCM9840		ELP/DCM9840B	
Input Rating	Power	200.000 W		200.000 W	
	Current	0 - 1500 A		0 - 500 A	
	Voltage	0 - 150 V		0 - 500 V	
CC Mode	Range	0 - 100 A	0 - 1000 A	0 - 50 A	0 - 500 A
	Resolution	1 mA	10 mA	1 mA	10 mA
	Accuracy	0,1%+0,1%FS	0,2%+0,5%FS	0,1%+0,05%FS	0,15%+0,2%FS
CV Mode	Range	0,1 - 19.999 V	0,1 - 150 V	0,1 - 19.999 V	0,1 - 500 V
	Resolution	1 mV	10 mV	1 mV	10 mV
	Accuracy	0,03%+0,02%FS	0,03%+0,02%FS	0,03%+0,02%FS	0,03%+0,05%FS
CR Mode (Voltage and current input value > 10% full messument)	Range	0,03 - 10 K Ω	0,03 - 5 K Ω	0,3 - 10 K Ω	0,3 - 5 K Ω
	Resolution	16 bit	16 bit	16 bit	16 bit
	Accuracy	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS
CW Mode (Voltage and current input value > 10% full messument)	Range	0 - 15.000 W	0 - 200.000 W	0 - 25.000 W	0 - 200.000 W
	Resolution	10 mW	100 mW	10 mW	100 mW
	Accuracy	0,1%+0,1%FS	0,2%+0,15%FS	0,1%+0,1%FS	0,2%+0,15%FS
V Measurement	Voltage	0 - 19.999 V	0 - 150 V	0 - 19.999 V	0 - 500 V
	Resolution	1 mV	10 mV	1 mV	10 mV
	Accuracy	0,015%+0,03%FS	0,015%+0,03%FS	0,015%+0,03%FS	0,015%+0,05%FS
I Measurement	Current	0 - 100 A	0 - 1000 A	0 - 50 A	0 - 500 A
	Resolution	1 mA	10 mA	0,1 mA	1 mA
	Accuracy	0,1%+0,1%FS	0,2%+0,5%FS	0,1%+0,05%FS	0,15%+0,2%FS
W Measurement (Voltage and current input value > 10% full messument)	Watt	100 W	200.000 W	100 W	200.000 W
	Resolution	1 mW	100 mW	1 mW	100 mW
	Accuracy	0,1%+0,1%FS	0,2%+0,5%FS	0,1%+0,05%FS	0,15%+0,2%FS

Battery Test	Battery Input: 0,5 - 120 V; Max. Measurement: Capacy = 999 AH; Resolution = 0,1 mA; Time Range = 15 - 16 HS
Dynamic Test	Transition List: 0 - 25 kHz; 5 A/uS; T1 & T2: 60 uS - 999 S; Accuracy: +/- 15 % offset + 10 %FS
CC soft-startup Time	1 mS; 2 mS; 5 mS; 10 mS; 20 mS; 50 mS; 100 mS; 200 mS; Accuracy: +/- 15 % offset + 10 %FS

Short Circuit	Current CC	= 100 A	= 1000 A	= 55 A	= 550 A
	Voltage CV	0 V		0 V	
	Resistance RC	= 2,3 mΩ		= 2,6 mΩ	
Temperature	Operating	0 - 40 °C		0 - 40 °C	
	Nonoperating	-10 °C - 70 °C		-10 °C - 70 °C	
Dimension	WxHxD (mm)	600 x 1880 x 700		600 x 1880 x 700	
Weight	Kg	4280		4280	