

Product Datasheet - Technical Specifications



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ELP/DCM97 series programmable DC electronic load

150 - 300 W 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
- Intelligent fan system fan will be automatically initiated according to the temperature
- 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
- 1000/1200 V on request
- Over current, over voltage, over power, over heat, polarity reversed protection
- 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/DCM9711		ELP/DCM9712		ELP/DCM9712B		ELP/DCM9712C		
Input Rating	Power	150 W		300 W		300 W		300 W	
	Current	0 - 30 A		0 - 30 A		0 - 15 A		0 - 60 A	
	Voltage	0 - 150 V		0 - 150 V		0 - 500 V		0 - 150 V	
CC Mode	Range	0 - 3 A	0 - 30 A	0 - 3 A	0 - 30 A	0 - 3 A	0 - 15 A	0 - 6 A	0 - 60 A
	Resolution	0,1 mA	1 mA	0,1 mA	1 mA	0,1 mA	1 mA	0,1 mA	1 mA
	Accuracy	0,03%+0,05%FS	0,03%+0,05%FS	0,03%+0,05%FS	0,03%+0,05%FS	0,03%+0,05%FS	0,03%+0,05%FS	0,03%+0,05%FS	0,03%+0,05%FS
CV Mode	Range	0,1 - 19.999 V	0,1 - 150 V	0,1 - 19.999 V	0,1 - 150 V	0,1 - 19.999 V	0,1 - 150 V	0,1 - 19.999 V	0,1 - 150 V
	Resolution	1 mV	10 mV	1 mV	10 mV	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%+0,02%FS	0,03%+0,02%FS	0,03%+0,02%FS	0,03%+0,02%FS	0,03%+0,02%FS
CR Mode (Voltage and current input value > 10% full messument)	Range	0,03 - 10 K Ω	0,03 - 5 K Ω	0,03 - 10 K Ω	0,03 - 5 K Ω	0,3 - 10 K Ω	0,3 - 5 K Ω	0,03 - 10 K Ω	0,03 - 5 K Ω
	Resolution	16 bit	16 bit	16 bit	16 bit	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	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 - 150 W	0 - 150 W	0 - 300 W	0 - 300 W	0 - 300 W	0 - 300 W	0 - 300 W	0 - 300 W
	Resolution	1 mW	10 mW	1 mW	10 mW	1 mW	10 mW	1 mW	10 mW
	Accuracy	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS
V Measurement	Voltage	0 - 19.999 V	0 - 150 V	0 - 19.999 V	0 - 150 V	0 - 19.999 V	0 - 500 V	0 - 19.999 V	0 - 150 V
	Resolution	1 mV	10 mV	1 mV	10 mV	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%+0,03%FS	0,015%+0,03%FS	0,015%+0,05%FS	0,015%+0,03%FS	0,015%+0,03%FS
I Measurement	Current	0 - 3 A	0 - 30 A	0 - 3 A	0 - 30 A	0 - 3 A	0 - 15 A	0 - 6 A	0 - 60 A
	Resolution	0,01 mA	0,1 mA	0,01 mA	0,1 mA	0,01 mA	0,1 mA	0,01 mA	0,1 mA
	Accuracy	0,03%+0,05%FS	0,03%+0,08%FS	0,03%+0,05%FS	0,03%+0,08%FS	0,03%+0,05%FS	0,03%+0,08%FS	0,03%+0,05%FS	0,03%+0,08%FS
W Measurement (Voltage and current input value > 10% full messument)	Watt	100 W	150 W	100 W	300 W	100 W	300 W	100 W	300 W
	Resolution	1 mW	10 mW	1 mW	10 mW	1 mW	10 mW	1 mW	10 mW
	Accuracy	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS	0,1%+0,1%FS

Battery Test	Battery Input: 0,1 - 150 V; Max. Measurement: Capacy = 999 AH; Resolution = 0,1 mA; Test Time = 1 S - 16 H
Dynamic Test	Transition List: 0 - 25 KHZ; 2,5 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; 500 mS; 1000 mS; Accuracy: +/- 15 % offset + 10 %FS

Short Circuit	Current CC	= 3,3 A	= 33 A	= 3,3 A	= 33 A	= 3,3 A	= 18 A	= 6,6 A	= 66 A
	Voltage CV	0 V		0 V		0 V		0 V	
	Resistance RC	= 55 mΩ		= 35 mΩ		= 300 mΩ		= 25 mΩ	
Temperature	Operating	0 - 40 °C		0 - 40 °C		0 - 40 °C		0 - 40 °C	
	Nonoperating	-10 °C - 70 °C		-10 °C - 70 °C		-10 °C - 70 °C		-10 °C - 70 °C	
Dimension	WxHxD (mm)	253 x 111 x 396							
Weight	Kg	3,5							

Model		ELP/DCM9712B30	
Input Rating	Power	300 W	
	Current	0 - 30 A	
	Voltage	0 - 500 V	
CC Mode	Range	0 - 3 A	0 - 30 A
	Resolution	0,1 mA	1 mA
	Accuracy	0,05%+0,05%FS	0,05%+0,08%FS
CV Mode	Range	0,1 - 19.999 V	0,1 - 500 V
	Resolution	1 mV	10 mV
	Accuracy	0,03%+0,02%FS	0,03%+0,05%FS
CR Mode (Voltage and current input value > 10% full messument)	Range	0,3 Ω - 10 K	0,3 Ω - 5 K
	Resolution	16 bit	16 bit
	Accuracy	0,1%+0,1%FS	0,1%+0,1%FS
CW Mode (Voltage and current input value > 10% full messument)	Range	0 - 300 W	0 - 300 W
	Resolution	1 mW	10 mW
	Accuracy	0,1%+0,1%FS	0,1%+0,1%FS
V Measurement	Voltage	0 - 19.999 V	0 - 500 V
	Resolution	1 mV	10 mV
	Accuracy	0,015%+0,03%FS	0,015%+0,03%FS
I Measurement	Current	0 - 3 A	0 - 30 A
	Resolution	0,01 mA	0,1 mA
	Accuracy	0,05%+0,05%FS	0,05%+0,08%FS
W Measurement (Voltage and current input value > 10% full messument)	Watt	100 W	300 W
	Resolution	1 mW	10 mW
	Accuracy	0,1%+0,1%FS	0,1%+0,1%FS

Battery Measurement	Battery Input: 0,5 - 120 V; Max. Measurement: Capacy = 999/H; Resolution = 0,1 mA; Time Range = 1S - 16 HS
Dynamic Measurement	Transition List: 0 - 25 kHz; 2,5 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	= 3,3 A	= 18 A
	Voltage CV	0 V	
	Resistance RC	= 45 mΩ	
Temperature	Operating	0 - 40 °C	
Dimension	WxHxD (mm)	253 x 111 x 396	
Weight	Kg	3,5	