

Power Supplies

Fast Response, Multi-Functional DC Electronic Load SFL series

- 300W and 1kW load power line ups
- 6 kinds of operation modes are available: Constant Current (CC), Constant Resistance (CR), Constant Voltage (CV), Constant Power (CP)
- GPIB interface, Ripple Noise Meter Options are available

July 21, 2020

TDK Corporation (TSE:6762) announces the start of selling new TDK-Lambda brand Electronics Load Equipment "SFL Series". TDK-Lambda Corporation will start shipping in July 2020.

DC electronic load, SFL series is capable for 300W/1000W. Its fast-current feedback control helps to reduce current overshoot during rise-up. The minimum operation voltage is not restricted in which can help the current to flow from 0A up to set-current proportionally, just like "electronic resistor".

Several operation modes are also available, such as CC (Constant Current), CV (Constant Voltage), CP (Constant Power), to simulate many kinds of load test conditions for customer application.

USB interface is standard built-in, while GPIB and ripple noise meter are available as options. Ripple noise measuring method is equivalent to 100MHz BW to meet JEITA standard

It is possible to configure large load system up to 10kW (10pcs) by connecting cables that available as options. This is suitable for DC Power Supply, Fuel Cell Battery, Solar Battery, etc. Also, battery charge/discharge application is also possible by combining DC electronic load and our DC Power supply products, such as GENESYS+.

Main applications

- Load for DC Power Supply, Fuel Cell, Solar Battery
- Load for Test and Measurements

Main features and benefits

- 4 models available : Load Power 300W, 1kW (Rated Voltage: 120V or 500V)
- Built-in USB interface
- Fast current feedback control (to reduce current overshoot)
- Operates as like actual resistance (operates proportionally from 0A)
- 6 modes operation (Constant Current, Constant Resistance, Constant Voltage, Constant Power, External Control, Short Circuit)
- Up to 10kW (10pcs) configuration utilizing option cable connection
- Ripple Noise Meter is available as option

Key data: SFL Series

Model Name	SFL 120-60-300	SFL 500-12-300	SFL 120-180-1K	SFL 500-36-1K
Input Line Voltage	AC 85 V~264 V			
Voltage	120 V	500 V	120 V	500 V
Current	60 A	12 A	180 A	36 A
Power	300 W	300 W	1000 W	1000 W
Min. resistance	< 18 mΩ	< 100 mΩ	< 6 mΩ	< 33.3 mΩ
Load Range	1.08V(60A)	1.2V(12A)	1.08V(180A)	1.2V(36A)
	0.54V(30A)	0.6V(6A)	0.54V(90A)	0.6V(18A)
	0.22V(12A)	0.28V(2.8A)	0.22V(36A)	0.28V(8.4A)
Operation Mode	Constant Current (CC), Constant Resistance (CR), Constant Voltage (CV), Constant Power (CP), External Control (EXT), Short Circuit (SHORT)			
Size(W×H×D) (Exc. Protrusion)	215×128.6×420 mm		430×128.6×450 mm	
Weight	Approx.6.5 kg		Approx.13 kg	

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation is a trusted, innovative leader and global supplier of highly reliable power conversion products for industrial and medical equipment worldwide.

TDK-Lambda Corporation is aligned for fast responses to any customer need with R&D, manufacturing, sales and service locations in five key geographic regions, namely Japan, EMEA, Americas, China and ASEAN.

For more details, please pay a visit to: www.jp.lambda.tdk.com/en/

You can download this text and associated images from https://www.jp.lambda.tdk.com/en/about/press/20200721_1.html

Further information on the products can be found under <https://product.tdk.com/info/en/products/power/switching-power/load/catalog.html>

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